5

## **General Science**

1.	A co	oncave lens always f	orms	an image which is (SSC CGL 1 <sup>st</sup> Sit. 2010)		12-21	ordinary water		water is higher than that of
	(a)	real and erect	(b)	virtual and erect			It produces corros		
	(c)	real and inverted	(d)	virtual and inverted	11.	In v	which of the following	ng pro	ocesses energy is released?
2.	Avi	tamin requires coba	lt for	its activity. The vitamin is					(SSC CGL 1st Sit. 2010)
		•		(SSC CGL 1st Sit. 2010)		(a)	Respiration	(b)	Photosynthesis
	(a)	Vitamin B <sub>12</sub>	(b)	Vitamin D		(c)	Ingestion	(d)	Absorption
		Vitamin B <sub>2</sub>		Vitamin A	12.	Ani	mals living in the tre	ee trui	nks are known as
3.		of the constituents							(SSC CGL 1st Sit. 2010)
J.		Ethane		Ethanol		(a)	Arboreal	(b)	Volant
	100	Ether		Chloropicrin		(c)	Amphibious	(d)	Aquatic
4					13.				wave rectifier be n, then the
4.	The	modulus of rigidity	is ui				out frequency would		(SSC CGL 1st Sit. 2010)
				(SSC CGL 1st Sit. 2010)		1000000			A 17 1 141
	190	longitudinal stress				(a)	<u>n</u>	(b)	n
		Volume stress to vo				(a)	2	(0)	11
		shearing stress to s					3n		
	(d)	tensile stress to ten	sile	strain		(c)	$\frac{3n}{2}$	(d)	2n
5.	The	propagation of sou	nd w	aves in a gas involves	/12/02/0		_	200	
	20		2	(SSC CGL 1st Sit. 2010)	14.	Hea	at transfer horizonta	lly wi	thin the atmosphere is called (SSC CGL 1 <sup>st</sup> Sit. 2010)
		adiabatic compress				(0)	Conduction	(b)	Convection
		isothermal compre							
	(c)	isochoric compress	ion a	and rarefaction	15	200	Absorption	(a)	Advection
	(d)	isobaric compressi	on ar	nd rarefaction	15.		ise is measured in	(h.)	(SSC CGL 1 <sup>st</sup> Sit. 2010)
6.	An a	atomic clock is base	d on	transitions in			Watt		REM
				(SSC CGL 1st Sit. 2010)	16		Centigrade		Decibel
	(a)	Sodium	(b)	Caesium	16.	In	e bats can fly in the	dark	
	(c)	Magnesium	(d)	Aluminium		(-)	41	1	(SSC CGL 1 <sup>st</sup> Sit. 2010)
7.	67.1556	( <del></del>	karyo	otic celle is made up of			they can see the o		
				(SSC CGL 1st Sit. 2010)		(b)		egs ar	nd are likely to be attacked by
	(a)	Phospholipid	(b)	Lipoprotein		()	predators		21: -1.4
		Phospholipo-proteir		[전기를 통해 다니다.] (IT IT I			they generate flas		
8.				s also called the 'power house'	17		they generate ultr		
		ne cell ?	6	(SSC CGL 1 <sup>st</sup> Sit. 2010)	17.				a ball of ice and water kept at
		Golgi body	(b)	Mitochondrion			ctly zero degree Cel	sius?	(SSC CGL 1st Sit. 2010)
	150000	Ribosome	000000			\-/	All ice will melt		
0	100			Lysosome		2007	All water will bec		
9.	WI	nat is the chemical n	ame				No change will ha		
	()	C'	4	(SSC CGL 1 <sup>st</sup> Sit. 2010)			Only some ice wil		
		Citric acid		Acetic acid	18.	Th	ne art and science of	map 1	
10.20		Pyruvic acid		Malic acid					(SSC CGL 2 <sup>nd</sup> Sit. 2010)
10.	Wh	nich of the following	; is n	ot a property of heavy water?			Remote Sensing		Cartography
				(SSC CGL 1st Sit. 2010)			Photogrammetry		Mapping
	(a)	Boiling point of ordinary water	heav	y water is lower than that of	19.	Si		l in pl	otographic plates because they (SSC CGL 2 <sup>nu</sup> Sit. 2010)
	(b)		vater	is higher than that of ordinary		(a)	oxidised in air	(b)	soluble in hyposolution
		water				(c)	reduced by light	(d)	totally colourless

20	Tetra ethyle lead (TEL) is (SSC CGL 2 <sup>nd</sup> Sit. 2010)	22	The longest home in the human hady is
20.		32.	The longest bone in the human body is
	(a) a catalyst used in burning fossil fuel		(SSC CGL 1 <sup>st</sup> Sit. 2011)
	(b) an antioxidant		(a) Ulna (b) Humerus
	(c) a reductant	22	(c) Femur (d) Tibia
923011	(d) an antiknock compound	33.	
21.			would (SSC CGL 1 <sup>st</sup> Sit. 2011)
	(SSC CGL 2 <sup>nd</sup> Sit. 2010)		(a) remain the same (b) decrease
	(a) Matter becomes radioactive		(c) become zero (d) increase
	(b) A metal loses magnetic properties	34.	The function of ball bearings in a wheel is
	(c) A metal loses conductivity		(SSC CGL 1st Sit. 2011)
	<ul><li>(d) Transmutation of metal occurs.</li></ul>		(a) to increase friction
22.	The isotope used for the production of atomic energy is		(b) to convert kinetic friction into rolling friction
	(SSC CGL 2 <sup>nd</sup> Sit. 2010)		(c) to convert static friction into kinetic friction
	(a) U-235 (b) U-238		(d) just for convenience
	(c) U-234 (d) U-236	35.	그 경영의 그 주민이 그 없는 그 없는 그 이렇게 그 이렇게 되었다. 그 그 그 그 없는 그 없는 그 없는 그 없는 그 없는 그 없다.
23.	The acceleration due to gravity at the equator	55.	(SSC CGL 1st Sit. 2011)
	(SSC CGL 2 <sup>nd</sup> Sit. 2010)		(a) is not brittle
	(a) is less than that at the poles		
	(b) is greater than that at the poles		(b) has lower elasticity
			(c) has higher elasticity
	(c) is equal to that at the poles		(d) has no ductile property
2.7	(d) does not depend on the earth's centripetal acceleration	36.	Which of the following could be used as fuel in propellant of
24.	Which of the following is not a nucleon?		rockets? (SSC CGL 1st Sit. 2011)
	(SSC CGL 2 <sup>nd</sup> Sit. 2010)		(a) Liquid Hydrogen + Liquid Nitrogen
	(a) Proton (b) Neutron		(b) Liquid Oxygen + Liquid Argon
	(c) Electron (d) Positron		(c) Liquid Nitrogen + Liquid Oxygen
25.	The material used in the manufacture of lead pencil is		(d) Liquid Hydrogen + Liquid Oxygen
	(SSC CGL 2 <sup>nd</sup> Sit. 2010)	27	
	(a) Graphite (b) Lead	37.	231 1
	(c) Carbon (d) Mica		(SSC CGL 1 <sup>st</sup> Sit. 2011)
26.	Angle of friction and angle of repose are		(a) increasing the strength of cement
	(SSC CGL 2 <sup>nd</sup> Sit. 2010)		(b) rapid setting of cement
	(a) equal to each other		<ul><li>(c) preventing rapid setting of cement</li></ul>
	(b) not equal to each other		(d) reduction in the cost of cement
	(c) proportional to each other	38.	0 1
	(d) None of the above		(SSC CGL 1st Sit. 2011)
27.	What happens to a person who receives the wrong type of		(a) Paper industry (b) Cement industry
	blood? (SSC CGL 2 <sup>nd</sup> Sit. 2010)		(c) Cotton industry (d) Pesticide industry
	(a) All the arteries constrict	39.	
	(b) All the arteries dialate		(a) antipyretic (b) analgesic
	(c) The RBCs agglutinate		(c) antiseptic (d) anaesthetic
	(d) The spleen and lymph nodes deteriorate	40.	
28	If all bullets could not be removed from gun shot injury of a	40.	(SSC CGL 1 <sup>st</sup> Sit. 2011)
40.	man, it may cause poisoning by (SSC CGL 2 <sup>nd</sup> Sit. 2010)		- AND
	- [1] 이렇게 : [1] 전에 가면 하는 [1] 전에 다른 아이들 아이들 때문에 다른 아이들 - [1] 전에 다른 아이들 - [1] 전		(a) pisciculture tank (b) agricultural land
	(a) Mercury (b) Lead	(19510	(c) zoo (d) aquarium
20	(c) Iron (d) Arsenic	41.	The constituent of automobile exhaust that can cause cancer
29.	Ringworm is a disease. (SSC CGL 2 <sup>nd</sup> Sit. 2010)		is (SSC CGL 1 <sup>st</sup> Sit. 2011)
	(a) Bacterial (b) Protozoan		(a) Oxides of nitrogen
	(c) Viral (d) Fungal		(b) Carbon monoxide
30.	Pituitary gland is situated in (SSC CGL 2 <sup>nd</sup> Sit. 2010)		(c) Polycyclic hydrocarbons
	(a) the base of the heart		(d) Lead
	(b) the base of the brain	42	
	(c) the neck		for survival of aquatic organisms is
	(d) the abdomen		(SSC CGL 1st Sit. 2011)
31.	Saliva helps in the digestion of (SSC CGL 1 <sup>st</sup> Sit. 2011)		(a) 4-6 (b) 2-4
	(a) Fats (b) Starch		(a) 4-6 (b) 2-4 (c) 8-10 (d) 12-16
	(c) Proteins (d) Vitamins		(u) 12-10

43.	The	world's only floating	g nati	onal park is situated in (SSC CGL 1st Sit. 2011)		(d)	dispersion of light	only	nal reflection of light
	0.00	Manipur	1.911.6	Kuala Lumpur	56.		i 🕶 n nancani kina na angahi ini katanan atin		sociated with the apprearance
		Bilaspur		Dispur			lue colour of the sky		(SSC CGL 2 <sup>nd</sup> Sit. 2011)
44.	Who	o invented vaccination	on for			(a)	Interference	(b)	Reflection
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)		(c)	Refraction	(d)	Scattering
		Sir Fredrick Grant E		g	57.	Len	s is made up of		(SSC CGL 2 <sup>nd</sup> Sit. 2011)
	0.000	Sir Alexander Flemi	ng			(a)	Pyrex glass	(b)	Flint glass
		Edward Jenner				(c)	Ordinary glass	(d)	Cobalt glass
		Louis Pasteur			58.	The	element used for vu	lcani	
45.		seed is associated w		(SSC CGL 2 <sup>nd</sup> Sit. 2011)					(SSC CGL 2 <sup>nd</sup> Sit. 2011)
		Rice		Wheat		(a)	Sulphur	(b)	Bromine
		Cotton		Oil seeds		(c)	Silicon	(d)	Phosphorus
46.			(S	als is found in Monazite sand? SSC CGL 2 <sup>nd</sup> Sit. 2011)	59.		ich of the following yrex glass?	is res	ponsible for the extra strength (SSC CGL 2 <sup>nd</sup> Sit. 2011)
	(a)	Potassium	(b)	Uranium			Potassium Carbona	ate (b)	
	(c)	Thorium		Sodium			Borax		Ferric Oxide
47.			oarts a	are (SSC CGL 2 <sup>nd</sup> Sit. 2011)	60.	The	noble gas used for	10.0	eatment of cancer is
	(a)	roots & leaves							(SSC CGL 2 <sup>nd</sup> Sit. 2011)
	(b)	leaves & flowers				(a)	Helium	(b)	Argon
	(c)	leaves & dried fru	its				Krypton		Radon
	(d)	flowers & dried fru	iits		61		tilization occurs nor		
48.	Wh	nich plant is called H	erbal	Indian Doctor?	01.	1 (1	imzation occurs nor	many	(SSC CGL 1st Sit. 2012)
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)		(a)	Cervix	(b)	Vagina
	(a)	Amla	(b)	Mango			Fallopian tube		Uterus
	(c)	Neem	(d)	Tulsi	62.				heavy quantities generally die of
49.	The	e pH of human blood	lis	(SSC CGL 2 <sup>nd</sup> Sit. 2011)	02.	100	pic consuming alcon	101 111 1	(SSC CGL 1 <sup>st</sup> Sit. 2012)
	(a)	7.2	(b)	7.8		(2)	liver or stomach ca	ancer	(SSC CGL 1 Sit. 2012)
		6.6		7.4		(b)			cles leading to cardiac arrest
50.			owing	g is the largest endocrine gland		(c)	blood cancer	tillus	ces reading to cardiac arrest
	in t	the body?		(SSC CGL 2 <sup>nd</sup> Sit. 2011)			Cirrhosis		
	(a)	Thyroid	0.00	Parathyroid	63.			aca of	the grazing food-chain are
		Adrenal		Pituitary	05.	1110	organisms at the o	asc or	(SSC CGL 1 <sup>st</sup> Sit. 2012)
51.	Wh	nich amongst the foll	owing	g is the largest mammal?		(0)	Carnivores	(b)	Decomposers
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)		(a)	Producers		Herbivores
		Elephant		Whale	61	190			er is (SSC CGL 1 <sup>st</sup> Sit. 2012)
		Dinosaur		Rhinoceros	04.	1	90 g		
52.	Wh	nich part is modified	as th			(a)			45 g 180 g
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)	65	2000	18g	(u)	(SSC CGL 1 <sup>st</sup> Sit. 2012)
		Canine	0.000	Premolar	65.	6.3	amin A is rich in	(b)	
-		Second incisor		Molar		(a)	Carrot Beans		Lime Rice
53.	Op	tical fibres are based	on the	ne phenomenon of	"	2000			2 72 2 2 22
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)	66.				water compared to hydrogen
	(a)	Interference				sulp	ohide or hydrogen c	hloric	
	(b)	Dispersion					22/997 (42/0/24) (42/0/24)		(SSC CGL 1st Sit. 2012)
	(c)	Diffraction					Dipole insulation		
	(d)	Total Internal Refle	ection			(b)	Van der Waal's att		n
54.	Nov	w-a-days yellow la	mps	are frequently used as street		(c)		_	
	ligh	its. Which of the foll	owing	g gases is used in these lamps?			Hydrogen bondin		ST 1581 18 580 18 18
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)	67.		and the common of the same and a second	deter	mines the chemical properties
	(a)	Sodium	(b)	Neon			n element?		(SSC CGL 1 <sup>st</sup> Sit. 2012)
		Hydrogen		Nitrogen			Number of electro		
55.	'Mi	rage' is an example o	f	_ 3		1.9.0	Number of neutron		
				(SSC CGL 2 <sup>nd</sup> Sit. 2011)		(c)	Number of protons	S	
	212	8558 US 17565USES	35						

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68.	'Lumen' is the unit of (SSC CGL 1st Sit. 2012)	82.	The red, orange and yellow colours of leaves are due to
	(a) Illuminance (b) Brightness		(SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(c) Luminous flux (d) Luminous intensity		(a) Carotenoids (b) Aldehydes
69.	Which one of the following forces is a 'dissipative force'?		(c) Tannins (d) Lignins
	(SSC CGL 1st Sit. 2012)	83.	
	(a) Electrostatic force (b) Magnetic force		beams are these? (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(c) Gravitational force (d) Frictional force		(a) Random (b) Parallel
70.	If a resistive wire is elongated, its resistance		(c) Converging (d) Diverging
	(SSC CGL 1st Sit. 2012)	84.	
	(a) decreases (b) remains constant	04.	(a) Type II diabetes (b) Osteoporosis
	(c) increases (d) All of the above		(c) Breast-cancer (d) Kidney failure
71.	If a magnet has a third pole, then the third pole is called	05	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
	(SSC CGL 1st Sit. 2012)	85.	through vacuum? (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(a) defective pole (b) consequent pole		[1] 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전
	(c) extra pole (d) arbitrary pole		(a) Blue (b) Red
72.	The sweet taste of fruits is due to (SSC CGL 1st Sit. 2012)	06	(c) Green (d) All of the above
	(a) Lactose (b) Fructose	86.	
	(c) Maltose (d) Ribose		station is (SSC CGL 2 <sup>nd</sup> Sit. 2012)
73.	Which is NOT a correct statement?		(a) solar energy
	(SSC CGL 2 <sup>nd</sup> Sit. 2012)		(b) the potential energy of water
	(a) Phenols are acidic		(c) the kinetic energy of water
	(b) In benzene all the atoms lie in one plane		(d) the electro-chemical energy of water
	(c) Methylated spirit contains only methanol	87.	The disease that kills more people than lung cancer as a
	(d) Dilute solutions contain less amount of solute		consequence of air pollution is (SSC CGL 2 <sup>nd</sup> Sit. 2012)
4.	The infective stage of Malaria is		(a) chronic bronchitis (b) asthma
	(SSC CGL 2 <sup>nd</sup> Sit. 2012)		(c) emphysema (d) heart attack
	(a) Gametocyte (b) Ring stage	88.	
	(c) Sporozoite (d) Merozoite		(SSC CGL 2 <sup>nd</sup> Sit. 2012)
75.	Which of the following is meant for the ex-situ conservation		(a) Milk of lime-sodium sulphate
	of various species? (SSC CGL 2 <sup>nd</sup> Sit. 2012)		(b) Glauber's salt–calcium sulphate
	(a) Sperm bank (b) Blood bank		(c) Salt petre–potassium nitrate
	(c) Germplasm bank (d) Herbarium		(d) Gypsum–calcium hydroxide
6.	An algae type ocean deposit is (SSC CGL 2 <sup>nd</sup> Sit. 2012)	89.	'Eutrophication' is associated with
	(a) Neritic remains (b) Diatom Ooze	07.	(SSC CGL 1st Sit. 2012)
	(c) Pteropod Ooze (d) Pelagic deposits		
77.	Photosynthetic vesicle found in bacteria is called a		그렇게 하는 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그
	(SSC CGL 2 <sup>nd</sup> Sit. 2012)		(b) sewage (c) silt load
	(a) Mesosome (b) Chromatophore		
	(c) Genophore (d) Pneumatophore	00	(d) vegetation
8.	What type of mirror is used in a view finding mirror of a	90.	The best way to maintain a natural equilibrium between the
	vehicle? (SSC CGL 2 <sup>nd</sup> Sit. 2012)		pest and predator is by using (SSC CGL 1st Sit. 2012)
	(a) Convex mirror (b) Plane mirror		(a) insecticides (b) biological control
	(c) Concave mirror (d) Paraboloidal mirror		(c) pesticides (d) herbicides
0	Pyroligneous acid obtained from wood contains	91.	'Dry ice' is the condensed form of
9.	(SSC CGL 2 <sup>nd</sup> Sit. 2012)		(SSC CGL 1st Sit. 2012)
	200-200 - 1011(1911) - 1011(1911) - 201 -		(a) sulphur tri-oxide
	(a) 10% Formaldehyde (b) 10% Acetic acid		(b) carbon dioxide
00	(c) 10% Formic acid (d) 10% ethanol		
s0.	Union Carbide India Ltd. manufactured essentially		
	(SSC CGL 2 <sup>nd</sup> Sit. 2012)	00	(d) oxygen
	(a) Heavy water (b) Petrochemicals	92.	
	(c) Fertilizers (d) Leather goods		called (SSC CGL 1 <sup>st</sup> Sit. 2012)
1.	Drying oils contain a fairly large proportion of		(a) ferro-magnetic substances
	(a) Unsaturated fatty acids (SSC CGL 2 <sup>nd</sup> Sit. 2012)		(b) universal substances
	(b) Fats		(c) para-magnetic substances
	(c) Proteins		(d) dia-magnetic substances
	(d) Saturated fatty acids		
	N/T/A = 150 A/A		(d) dia-magnetic substances

93.	In a pin-hole camera, we usually get	106. A form of condensation that reduces visibility and causes
	(SSC CGL 1st Sit. 2012)	breathing problems is (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(a) erect impression (b) inverted impression	(a) dew (b) frost
	(c) erect image (d) inverted image	(c) smog (d) mist
94.	What happens to the kinetic energy of gas molecules with	<ol> <li>Green glands are associated with (SSC CGL 2<sup>nd</sup> Sit. 2012)</li> </ol>
	rise of temperature? (SSC CGL 1st Sit. 2012)	(a) reproduction (b) excretion
	(a) Remains same (b) Fluctuates	(c) respiration (d) digestion
	(c) Increases (d) Decreases	108. During respiration, the gases enter into the blood and leave
95.	The sex of a child is determined (SSC CGL 1st Sit. 2012)	the same by the process of (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(a) six to seven weeks after conception	(a) active transport
	(b) in the third month of pregnancy	(b) diffusion
	(c) at the time of sperm's entry	
	(d) at the time of fertilisation of ovum	
96	The food chain of the ecosystem is maintained by the	(d) osmosis
,,,	activities of (SSC CGL 1st Sit. 2012)	109. Heart is devoid of (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(a) Decomposers (b) Predators	(a) cardiac muscle (b) involuntary muscle
	(c) Producers (d) Consumers	(c) voluntary muscle (d) smooth muscle
97.	Which one of these primates is closest to the modern man?	110. The soil salinity is measured by (SSC CGL 2 <sup>nd</sup> Sit. 2012)
91.	(SSC CGL 1st Sit. 2012)	(a) conductivity meter (b) hygrometer
		(c) psychrometer (d) auxanometer
	(a) Orangutan (b) Chimpanzee (c) Gorilla (d) Gibbon	111. Which of the following is a fungal disease?
98.		(SSC CGL 2 <sup>nd</sup> Sit. 2012)
90.	A gram of fertile agricultural soil may contain bacteria upto	(a) Leucoderma (b) Eczema
	(SSC CGL 1 <sup>st</sup> Sit. 2012) (a) five million	(c) Eingworm (d) Elephantiasis
		112. Chickenpox is caused by (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(b) one billion and above	(a) DNA virus (b) Variola virus
	(c) fifty thousand	(c) Streptococcus (d) Vibrio cholerae
00	(d) five hundred thousand	113. Instruments can be shielded from outside magnetic effects
99.	A reduction reaction involves (SSC CGL 1 <sup>st</sup> Sit. 2012)	by surrounding them with (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(a) addition of oxygen	(a) iron shield (b) rubber shield
	(b) addition of nitrogen	
	(c) addition of hydrogen	(c) brass shield (d) glass shield
100	(d) None of the above	114. Find the odd one. (SSC CGL 2 <sup>nd</sup> Sit. 2012)
100	An antiknock for petrol is (SSC CGL 1 <sup>st</sup> Sit. 2012)	(a) Marble (b) Chalk
	(a) sodium hydroxide (b) ethanol	(c) Limestone (d) Slaked lime
	(c) sodium benzoate (d) lead tetraethyl	115. The following is a pseudo-force: (SSC CGL 2 <sup>nd</sup> Sit. 2012)
101	. Which one of the following pairs is not correctly matched?	(a) Centrepetal force
	(SSC CGL 1 <sup>st</sup> Sit. 2012)	(b) Centrifugal reaction force
	(a) Vitamin C - Scurvy	(c) Centrifugal force
	(b) Vitamin K - Clotting of blood	(d) Strong nuclear force
	(c) Vitamin A - Night blindness	116. The hydraulic brake used in automobiles is a direct application
	(d) Vitamin E - Rickets	of (SSC CGL 2 <sup>nd</sup> Sit. 2012)
102	The fibre that will yield ammonia when destructively distilled	(a) Archimedes' principle
	is (SSC CGL 1 <sup>st</sup> Sit. 2012)	(b) Torricellean law
	(a) wool (b) cellulose acetate	(c) Bernoulli's Theorem
	(c) cotton (d) silk	(d) Pascal's law
103	During respiration, energy is derived from	117. Amides can be converted to amines by the reaction named
	(SSC CGL 1st Sit. 2012)	(SSC CGL 2 <sup>nd</sup> Sit. 2012)
	(a) ATP (b) chlorophyll	(a) Perkin (b) Claisen
	(c) RNA (d) DNA	(c) Hoffman (d) Clemmesen
104	When was a global network of daily temperature records	118. The base used as an antacid is (SSC CGL 2 <sup>nd</sup> Sit. 2012)
	created? (SSC CGL 1 <sup>st</sup> Sit. 2012)	\$2,500 Per 10 Pe
	(a) Around 1890 (b) Around 1920	(a) calcium hydroxide
	(c) Around 1800 (d) Around 1850	(b) barium hydroxide
105	Sex hormones are (SSC CGL 1st Sit. 2012)	(c) magnesium hydroxide
100.		(d) silver hydroxide
	(a) vitamins (b) alkanes	And an in the second
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(c) the wavelength of red light is more than yellow light (d) none of the above reasons  125. Transboundary pollution (or) Acid rain is caused by (SSC CGL 1st Sit. 2013)  (a) nitrogen oxide and sulphur dioxide (b) carbon monoxide (c) carbon dioxide (d) hydrocarbon  126. Which of the following is an endemic species? (SSC CGL 1st Sit. 2013)  (a) Nicobar pigeon (b) Horn bill (c) Indian Rhino (d) Pink head duck  127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as (SSC CGL 1st Sit. 2013)  (a) Liminic (b) Lacaustrine (c) Fluvial (d) Glacial  128. Blood group was discovered by (a) Alexander Fleming (b) William Harvey (c) Landsteiner (d) Pavlov  (a) Egg yolk Protein and Fat (b) Fleshy foods Calcium and Protein (c) Fish Starch and Vitamin  137. Stains of rust on clothes can be removed by (SSC CGL 1st Sit. 2013)  (a) H <sub>2</sub> O <sub>2</sub> (b) Oxalic acid (c) Petrol (d) Alcohol  138. The percentage of nitrogen present in ammonium sulphate is: (SSC CGL 1st Sit. 2013)  (a) Blood (c) Power alcohol (b) Dilute alcohol (c) Power alcohol (d) Rectified spirit  (a) Absolute alcohol (b) Dilute alcohol (c) Power alcohol (d) Rectified spirit  (a) Aldesterone (c) Progesterone (d) Testosterone (c) Progesterone (d) Testosterone (d) International Pollution Control Council (b) International Panel of Climate Change (d) Intergovernmental Panel on Climate Change (d) Intergo		(b)			t is less than red		(c)	Twisted pair wire		이를 <del>즐</del> 겁하는데 이렇게 되었다면서 하는데 요.
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125. Transboundary pollution (or) Acid rain is caused by (SSC CGL 1st Sit. 2013)  (a) nitrogen oxide and sulphur dioxide (b) carbon monoxide (c) carbon dioxide (d) hydrocarbon  126. Which of the following is an endemic species? (SSC CGL 1st Sit. 2013)  (a) Nicobar pigeon (b) Horn bill (c) Indian Rhino (d) Pink head duck  127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as (SSC CGL 1st Sit. 2013)  (a) Liminic (b) Lacaustrine (c) Fluvial (d) Glacial  128. Blood group was discovered by (a) Alexander Fleming (b) William Harvey (c) Landsteiner (d) Pavlov  (a) Egg yolk Protein and Fat (b) Fleshy foods Calcium and Protein (c) Fish Starch and Vitamin  (a) HyO2 (b) Oxalic acid (c) Petrol (d) Alcohol  18. The percentage of nitrogen present in ammonium sulphate is: (SSC CGL 1st Sit. 2013)  (a) 18% (b) 21% (c) 25% (d) 30.5%  (a) Absolute alcohol (b) Dilute alcohol (c) Power alcohol (d) Rectified spirit  (a) Absolute alcohol (b) Dilute alcohol (c) Power alcohol (d) Rectified spirit  (a) Aldesterone (b) Cortisone (c) Progesterone (d) Testosterone  (d) International Pollution Control Council (b) International Panel of Climate Change (d) Intergovernmental Panel on Climate Change (e) Potential Change (f) Interpational Pollution Level" in India range between: (s) CGL 1st Sit. 2013)  (a) 10-15 dec (b) 16-35 dec (d) 70-100 dec										(SSC CGL 1st Sit. 2013)
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(c) Carbon dioxide (d) hydrocarbon  126. Which of the following is an endemic species?  (SSC CGL 1st Sit. 2013)  (a) Nicobar pigeon (b) Horn bill (c) Indian Rhino (d) Pink head duck  127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as  (SSC CGL 1st Sit. 2013)  (a) Liminic (b) Lacaustrine (a) Liminic (b) Lacaustrine (c) Fluvial (d) Glacial  128. Blood group was discovered by (a) Alexander Fleming (b) William Harvey (c) Landsteiner (d) Pavlov  (a) Egg yolk Protein and Fat (b) Fleshy foods Calcium and Protein (c) Fleshy foods Calcium and Protein (d) hydrocarbon (SSC CGL 1st Sit. 2013) (e) 25% (d) 30.5% (d) 30.5%  (a) Absolute alcohol (b) Dilute alcohol (c) Power alcohol (d) Rectified spirit  (a) Aldesterone (b) Cortisone (c) Progesterone (d) Testosterone (d) International Pollution Control Council (b) International Panel of Climate Control (c) Interim Panel of Climate Change (d) Intergovernmental Panel on Climate Change (d) Int		32		1				100/	a >	
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126. Which of the following is an endemic species?  (SSC CGL 1st Sit. 2013)  (a) Nicobar pigeon (b) Horn bill (c) Indian Rhino (d) Pink head duck  127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as		(d)	hydrocarbon			120				
(a) Nicobar pigeon (b) Horn bill (c) Indian Rhino (d) Pink head duck  127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as (SSC CGL 1st Sit. 2013)  (a) Absolute alcohol (b) Dilute alcohol (c) Power alcohol (d) Rectified spirit  (d) The hormone used as an oral contraceptive is (SSC CGL 1st Sit. 2013)  (a) Absolute alcohol (d) Rectified spirit  (b) The hormone used as an oral contraceptive is (SSC CGL 1st Sit. 2013)  (a) Aldesterone (d) Rectified spirit  (b) Cortisone (c) Progesterone (d) Testosterone  (a) Aldesterone (b) Cortisone (c) Progesterone (d) Testosterone  (a) International Pollution Control Council (b) International Panel of Climate Control (c) Interim Panel of Climate Change  (b) Fleshy foods Calcium and Protein (a) Egg yolk Protein and Fat (SSC CGL 1st Sit. 2013)  (a) Absolute alcohol (d) Rectified spirit  (d) The hormone used as an oral contraceptive is  (a) Aldesterone (b) Cortisone (c) Progesterone (d) Testosterone  (a) International Pollution Control Council (b) International Panel of Climate Change  (d) Intergovernmental Panel on Climate Change  (e) Progesterone (d) Testosterone  (a) International Pollution Control Council  (b) International Pollution Level" in India range between:  (SSC CGL 1st Sit. 2013)  (a) Aldesterone (b) Cortisone  (c) Progesterone (d) Testosterone  (a) International Pollution Control Council  (b) International Pollution Control Council  (d) Intergovernmental Panel on Climate Change  (d) Intergovernmental Panel on Climate Change  (d) Intergovernmental Panel on Climate Change  (d) Interpovernmental Panel on Climate Change  (d) Interpovernmental Panel on Climate Change  (e) Progesterone (d) Testosterone  (d) Interpovernmental Panel on Climate Change  (d) Interpovernmental Panel on Climate Change	126.	Wh	ich of the following	is an	endemic species?	139.	Etn	anoi containing 5%	water	
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(c) Indian Rhino (d) Pink head duck  127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as  (SSC CGL 1 <sup>st</sup> Sit. 2013)  (a) Liminic (b) Lacaustrine (c) Fluvial (d) Glacial  128. Blood group was discovered by  (a) Alexander Fleming (b) William Harvey  (c) Landsteiner (d) Pavlov  (a) Egg yolk Protein and Fat  (b) Fleshy foods Calcium and Protein  (c) Fish Starch and Vitamin  140. The hormone used as an oral contraceptive is  (SSC CGL 1 <sup>st</sup> Sit. 2013)  (a) Aldesterone (b) Cortisone  (c) Progesterone (d) Testosterone  141. Expand the term IPCC: (SSC CGL 1 <sup>st</sup> Sit. 2013)  (b) International Pollution Control Council  (c) Interim Panel of Climate Change  (d) Intergovernmental Panel on Climate Change  142. Acceptable "Noise Pollution Level" in India range between:  (a) Egg yolk (b) 16-35 dec  (c) 40-45 dec  (d) 70-100 dec		(a)	Nicobar pigeon	(b)	Horn bill		77.00			Rectified spirit
127. The natural disaster in which carbon-di-oxide suddenly erupts from a deep lake water is known as  (SSC CGL 1st Sit. 2013)  (a) Liminic (b) Lacaustrine (c) Fluvial (d) Glacial  128. Blood group was discovered by (a) Alexander Fleming (b) William Harvey (c) Landsteiner (d) Pavlov  (a) Egg yolk Protein and Fat (SSC CGL 1st Sit. 2013)  (b) Fleshy foods Calcium and Protein (c) Fish Starch and Vitamin  (a) Aldesterone (b) Cortisone (c) Progesterone (d) Testosterone  (d) Testosterone  (a) International Pollution Control Council  (b) International Panel of Climate Control  (c) Interim Panel of Climate Change  (d) Intergovernmental Panel on Climate Change  (d) Intergovernmental Panel on Climate Change  (d) Intergovernmental Panel on Climate Change  (a) Aldesterone (b) Cortisone  (c) Progesterone (d) Testosterone  (d) International Pollution Control Council  (e) Interim Panel of Climate Change  (f) Intergovernmental Panel on Climate Change  (g) Intergovernmental Panel on Climate Change  (g) Interpolation Level" in India range between:  (g) CGL 1st Sit. 2013)  (g) Aldesterone (c) Progesterone  (a) International Pollution Control Council  (b) Intergovernmental Panel on Climate Change  (d) Intergovernmental Panel on Climate Change  (e) Interim Panel of Climate Change  (f) International Pollution Control Council  (g) International Pollution Control Council  (h) International Pollution Control Council  (g) International Pollution Control Council  (g) International Pollution Control Council  (h) International Pollution Control Council  (g) International Pollution Control Council  (g) International Pollution Control		(c)	Indian Rhino	(d)	Pink head duck	140	11		3.5	
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128. Blood group was discovered by  (a) Alexander Fleming (b) William Harvey (c) Landsteiner (d) Pavlov  (a) Egg yolk Protein and Fat (b) Fleshy foods Calcium and Protein (c) Fish Starch and Vitamin  (b) International Panel of Climate Control (c) Interim Panel of Climate Change (d) Intergovernmental Panel on Climate Change (d) Intergovernmental Panel on Climate Change (d) Intergovernmental Panel of Climate Change		(c)	Fluvial	(d)	Glacial				tion (	
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143.				crop resulted in the pollution	155.		enpark Stadium is in		(SSC CGL 2 <sup>nd</sup> Sit. 2013)
		e tune of tragedy ir Tamil Nadu		(SSC CGL 1 <sup>st</sup> Sit. 2013) Kerala		1000	Bengaluru		Dehradun
	1.	Andhra Pradesh	1 /	Karnataka	156		Chandigarh		Kanpur n endangered species?
144				oss of excessive heat from body	150.	** 11	ich of the following	gisa	(SSC CGL 2 <sup>nd</sup> Sit. 2013)
144.		to sudden low body				(2)	Black buck	(b)	Blue sheep
	aue i	to sudden low body	temp	(SSC CGL 1 <sup>st</sup> Sit. 2013)			Gangetic dolphin	(3, 6)	Mithun
	(0)	Snakes	(h)		157				de disasters, which is socially
				Frogs Lizards	137.		uced?	i-mac	(SSC CGL 2 <sup>nd</sup> Sit. 2013)
145		Human beings		city at higher temperature but		- 1		(b)	Salt Water Intrusion
143.		it lower temperatur		그는 사람들은 사람들이 얼마나 아들이 살아 먹는 것이 되었다. 그 아이들은 사람들이 살아 있다면 살아 있다면 살아 있다면 살아 없었다.			Arson		Ozone depletion
	поса	it lower temperatur	eare	(SSC CGL 2 <sup>nd</sup> Sit. 2013)	158				endocrine gland is situated in
	(0)	super conductor	(4)	metallic-conductor	100		neck?	8	(SSC CGL 2 <sup>nd</sup> Sit. 2013)
		super-conductor semi-conductor		insulator			Pancreas	(b)	Thyroid
146				has greatest mass?			Pituitary	100	) Adrenals
140.	VV III	cii one or the rono	wing	(SSC CGL 2 <sup>nd</sup> Sit. 2013)	159		seat of intelligence		
	(a)	electron	(4)	proton			o ocur or interngence	• 10 0	(SSC CGL 2 <sup>nd</sup> Sit. 2013)
		neutron		hydrogen nucleus		(a)	cerebrum	(b)	cerebellum
147	1. 1	levision channel is					medulla	2.	thalamus
147.	Atcı	icvision chamier is	Citar	(SSC CGL 2 <sup>nd</sup> Sit. 2013)	160				olume in human adult?
	(a)	frequency of transr	nitted		100		at is the round Br	oou ,	(SSC CGL 2 <sup>nd</sup> Sit. 2013)
		velocity of transmi				(a)	One litre	(b)	Three litres
		physical dimension				(c)	Five litres	(d)	Seven litres
		size of picture tube			161.	The	fasting blood gluco		vel in adults in mg/100 ml is
148.				c. This is strictly valid at					(SSC CGL 2 <sup>nd</sup> Sit. 2013)
			. 6	(SSC CGL 2 <sup>nd</sup> Sit. 2013)		(a)	200	(b)	160
	(a) (	0°C	(b)			(c)	100	(d)	60
	(c) :			100°C	162.		omology is the stud		(SSC CGL 2 <sup>nd</sup> Sit. 2013)
149			3.00	sis involves conversion of			birds		insects
		process of priotosy		(SSC CGL 2 <sup>nd</sup> Sit. 2013)			fossils		fungi
	(a) (	chemical energy in	to rac	[ [	163.		biology is a science	200.5	
		chemical energy in					6,		(SSC CGL 2 <sup>nd</sup> Sit. 2013)
		solar energy into cl				(a)	extinct forms		(3.3.3.3.3.3.4)
		mechanical energy					life in other planet	S	
150.				liquid is dispersed in a liquid		(c)	life in the outer spa		
	is cal	- [10] [10] [10] [10] [10] [10] [10] [10]		(SSC CGL 2 <sup>nd</sup> Sit. 2013)			life in marine habit		
	(a)	gel	(b)	emulsion	164.				signals emitted by transmitting
	(c)			precipitate			nna are reflected or		(SSC CGL 2 <sup>nd</sup> Sit. 2013)
		antiseptic compour				(a)	stratosphere	(b)	ozonosphere
			* 1 × 1	(SSC CGL 2 <sup>nd</sup> Sit. 2013)		510.5	ionosphere		troposphere
	(a)	Iodine	(b)	Chloroxylenol	165.				constitute limestone skeletons
		Biothional	0.00	Cresol			called		(SSC CGL 1st Sit. 2013)
152.	Geno	omic (DNA) studio	es in	camel have been completed		(a)	Coral reefs	(b)	Diatoms
		ntly by the scientis		(SSC CGL 2 <sup>nd</sup> Sit. 2013)		(c)	Clamitomonous	(d)	Foraminifera
		South Africa		India	166.	Whi	ch of the following	plan	t pigments absorbs in red and
	(c)	China	(d)	Pakistan			ed region of light?	-33	(SSC CGL 1st Sit. 2013)
153.	Air q	uality depicting PM	1 2.5 i	s more hazardous to			Phytochrome	(b)	Cryptochrome
	· · · · · · · · · · · · · · · · · · ·	en representation de la company de la compan		(SSC CGL 2 <sup>nd</sup> Sit. 2013)		(c)	Carotenoid	(d)	Chlorophyll
	(a)	Archaeological Mo	num	ents	167.	The	process through		h excess of light energy is
		National Parks					ipated in photosynt		
	(c)	Botanical Gardens							(SSC CGL 1st Sit. 2013)
	(d)	Old Men and Wom	en			(a)	photolysis	(b)	photophosphorylation
	·-/			and for		·-/	F	1-1	F
154	riped	l Natural Gas (PNG	) is u	(SSC CGL 2 <sup>nd</sup> Sit. 2013)	1/0		quenching	(a)	scavenging
154.	77			(35C CGL 2 SIL 2013)	108.	AID	S virus destroys		(SSC CGL 1 <sup>st</sup> Sit. 2013)
	(0)	mining	(h)			(0)	mantagas bila	(1-)	haaamhila
	45.050	mining anaesthesia	1000000	welding cooking			neutrophils lymphocytes		basophils monocytes

169.				ng the wavelength of X-rays is (SSC CGL 1 <sup>st</sup> Sit. 2013)	182.		ich bacterial strain developed from natural isolates by etic manipulations can be used for treating oil spills?
		Bragg Spectromete				( )	(SSC CGL 1 <sup>st</sup> Sit. 2013)
		Mass Spectrometer					Clostridium (b) Nitrosomonas
	200	G. M. Counter					Pseudomonas (d) Agrobacterium
	370000	Cyclotron			183.		uction of nitrates to ammonia can be achieved through
170.	Alpl	ha particle is the nu	cleus				of the following methods: (SSC CGL 1st Sit. 2013)
				(SSC CGL 1st Sit. 2013)			in alkaline medium using Devarda's alloy.
	(a)	Helium	(b)	Oxygen			in neutral medium using Devarda's alloy.
	(c)	Lithium		Hydrogen			in acidic medium using Devarda's alloy.
				ngth and rigidity from			in neutral medium using Cupric oxide.
				(SSC CGL 1st Sit. 2013)	184.	Grits	s of sewage are removed in (SSC CGL 1st Sit. 2013)
	(a)	Chlorine	(b)	Sodium			Grit chamber (b) Detritus tank
		Calcium		Fluorine			Skimming tank (d) Trickling filter
172		type of tail found in			185.	The	most affected sulphur containing amino acid by PAN is
1/4.	THE	type of tall found in	Sila	(SSC CGL 1st Sit. 2013)			(SSC CGL 1st Sit. 2013)
	(-)	TT. reserved	(L)	1070 C		(a)	Cysteine (b) Methonine
		Heterocercal		Diphycercal		(c)	Proline (d) Globuline
		Protocercal		Homocercal	186.	Whic	ich of the following has zero electron affinity?
173.	The	Sigmoid Colon is pa					(SSC CGL 1 <sup>st</sup> Sit. 2013)
	(a)	large intestine	(b)	ileum		(a)	Oxygen (b) Fluorine
	(c)	small intestine	(d)	anal canal			Nitrogen (d) Neon
174.		ood conductor while			187		human body's largest blood vessel is
	-			(SSC CGL 1st Sit. 2013)	107.	THE	(SSC CGL 1st Sit. 2013)
	(a)	positively charged		,		(0)	1940 19 19 19 19 19 19 19 19 19 19 19 19 19
		electrically neutral					Pulmonary artery (b) Aorta Renal artery (d) Coronary artery
		alternately charge	i nos	itive and negative	100		uman body, which one of the following hormones regulates
		negatively charged		itive and negative	188.		
175				umamiana matanial ia kmanmaa			d calcium and phosphate? (SSC CGL 1st Sit. 2013)
1/5.	Coa	ting of solid waste w	ıın ır	npervious material is known as			Glucagon
		1 1011	4.	(SSC CGL 1 <sup>st</sup> Sit. 2013)			Growth hormone
	1112000	landfill		capping			Parathyroid hormone
.=.		encapsulation		chemical fixation	100		Thyroxine
176.	Ultr	aviolet rays can be	ised	in water treatment as	189.		v do most insects respire ? (SSC CGL 1st Sit. 2013)
				(SSC CGL 1 <sup>st</sup> Sit. 2013)			Through skin (b) Through gills
		hydrolyser		disinfectant			By tracheal system (d) By lungs
		flocculator		precipitator	190.	In nu	uclear reactions, there is conservation of
177.	Thia	amidine dimer form	ation	in DNA is caused by		77007007	(SSC CGL 1st Sit. 2013)
				(SSC CGL 1st Sit. 2013)			mass only (b) momentum only
	(a)	β and γ-rays	(b)	UV-rays			energy only (d) mass, energy and momentum
		IR-rays		X-rays	191.	Whe	en a particle and an antiparticle come in contact with
178		cone is a polymer of	0025.8	(SSC CGL 1st Sit. 2013)		each	n other, they (SSC CGL 1 <sup>st</sup> Sit. 2013)
		Dialkyl dichloro sil		(550 5521 511 2010)		(a)	repell each other (b) annihilate each other
	A 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Silane					go undisturbed (d) spin about a common axis
		Tetraalkyl silane			192.	Photo	toelectric effect is (SSC CGL 1 <sup>st</sup> Sit. 2013)
		Silicon tetrachlorid	•			(a)	an instantaneous process
				records 1ster and			delayed process
		ch is a natural collo		(SSC CGL 1 <sup>st</sup> Sit. 2013)			emission of protons
		Cane-sugar		Blood			emission of neutrons
	1700	Sodium chloride		Urea	193		a particle moving with a constant speed along a straight
180.	Whi	ch one of the follow	ing o	loes not contain Silver?	5,5,5,5,5		PQ, the hodograph is (SSC CGL 1 <sup>st</sup> Sit. 2013)
				(SSC CGL 1st Sit. 2013)			a straight line parallel to PQ
	(a)	German Silver	(b)	Horn Silver			a straight line perpendicular to PQ
	oc.17101771	Ruby Silver	(d)	Lunar Caustic			4.00.000 (4.00 miles ) - 4.00
	(2)	KIIDV SIIVET		Luniui Cuudii			a point
				amin B was revealed for the			
	The	presence of Cobalt i		amin B <sub>12</sub> was revealed for the	10.1		a circle
	The first	presence of Cobalt i time by	n Vit	(SSC CGL 1st Sit. 2013)	194.	Alun	minium is obtained by the electrolysis of pure Al <sub>2</sub> O <sub>3</sub>
	The first (a)	presence of Cobalt i time by Borax-Bead test	n Vit (b)	(SSC CGL 1 <sup>st</sup> Sit. 2013) Sodium Nitroprusside test	194.	Alun	minium is obtained by the electrolysis of pure Al <sub>2</sub> O <sub>3</sub> olved in (SSC CGL 1 <sup>st</sup> Sit. 2013)
	The first (a)	presence of Cobalt i time by	n Vit	(SSC CGL 1st Sit. 2013)	194.	Alun disso (a)	minium is obtained by the electrolysis of pure Al <sub>2</sub> O <sub>3</sub>

195.	Con	plete hydrolysis of	cellu	lose gives (SSC CGL 1 <sup>st</sup> Sit. 2013)	208.		e outer skin most of bohydrate. This carb		crustaceans are mad	e up of a
	(a)	D-fructose	(b)	L-glucose		Car	bonythate. This care	onyc	(SSC CGL 1st s	Sit 2013)
		D-glucose	(C) 1 (C) 2	L-fructose		(2)	cellulose	(b)	galactose	on. 2013)
196.		h body segment of Ea				1000	chitin		starch	
				(SSC CGL 1st Sit. 2013)	209				riment proved the pre	sence of
	(a)	Proglottid	(b)	Metamere	20).	Rui	neriora's scattering	схрс	(SSC CGL 1st s	
		Scolex		Rostellum		(a)	atoms in all matter		(SSC CGL1	on. 2013)
197.				downward with percolating		(b)				
		and water are called		(SSC CGL 1st Sit. 2013)		(c)				
	-	Leachates	(b)	Pollutates			nucleus in atoms			
	(c)	Earthites		Percolates	210			n a fla	me, the electrons abso	rh energy
198.	Lun	gs are located in the	2000	(SSC CGL 1st Sit. 2013)	210.				state. On coming ba	
	0.00000000	abdominal cavity		pericardial cavity					light, which we can o	
		peritoneal cavity		pleural cavity		iow	er energy state, they	Ciliit	(SSC CGL 1st S	
199.				is the ideal food for newborn		(0)	Daman chaotra	(b)		on. 2013)
	babi			(SSC CGL 1st Sit. 2013)			Raman spectra	(p)		
	(a)	Water	(b)	Sugar	0.0007075	(c)	Emission spectra	( <u>d</u> )	Fluorescence	20095
	2000	Honey		Milk	211.		od pressure may be	incre	ased by the excessive	
200		nscription means th				of			(SSC CGL 1st S	Sit. 2013)
		nour prion means in	0 0 1 1	(SSC CGL 1st Sit. 2013)		(a)	Thyroxine		Testosterone	
	(a)	Lipids	(b)	Protein			Estradiol		Estrol	
	100000	DNA		RNA	212.	The	e Concept of 'Green	Hous	e Gases" was postula	
201.				by the cells lining the		0927-207	E 18320 D	2002/000	(SSC CGL 1st S	Sit. 2013)
				(SSC CGL 1st Sit. 2013)		100000	Joseph Fourier	0.000	Abdul Kalam	
	(a)	Oral cavity	(b)	Stomach		1000	M. S. Swaminathar			
		Ileum	(d)	Colon	213.	"Bl	nopal gas tragedy" 19	984 is		
202.	Em	ulsification is		(SSC CGL 1st Sit. 2013)		2027	1901 0 0 00 10	200	(SSC CGL 1st S	Sit. 2013)
	(a)	breaking fats into s	mall	globules		(a)	Aluminium Phosph	iide		
	(b)	digestion of fats				(b)	Methyl bromide			
	(c)	absorption of fats				(c)	Methyl isocyanate			
	(d)	storage of fats			11520200	(d)				
203.	Tax	onomy is a science t	hat d		214.			370	-10) exhaled from the	77
				(SSC CGL 1st Sit. 2013)		atm	nosphere is often filt	ered	out during the proces	
	3.7	Morphology		Anatomy		2023	FEI 2/3	52/0	(SSC CGL 1st S	Sit. 2013)
		Classification		Economic uses			Coughing		Sneezing	
204.				esponsible for the working of	0.000		A and B		Urination	2122 21
				nent? (SSC CGL 1 <sup>st</sup> Sit. 2013)	215.		e animal who can con	sume	more salt among the	
		Formation of pure	•			is	CI	4.5	(SSC CGL 1st S	Sit. 2013)
		Formation of impur		ectra			Sheep	2000	Camel	
	(c)	Persistence of visio		tom cooloum	216		Donkey		Dog	CT 2014)
205		Principle of comple dimension MLT <sup>-2</sup>			210.		ctus is referred to as			GL 2014)
205.	ine	dimension MILI	corre	(SSC CGL 1 <sup>st</sup> Sit. 2013)		(a)		100000000000000000000000000000000000000	Mesophyte	
	(2)	force	(b)	work done	217	(c)			Epiphyte	
		acceleration		velocity	21/.	W	nich of the following	g is no	ot a renewable resour	
206				um theory of radiation?		(0)	Thomisses	(l-)		GL 2014)
200.	***	o is the founder of q	uante	(SSC CGL 1 <sup>st</sup> Sit. 2013)		(a)			Geothermal heat	
	(a)	Einstein	(b)	Bohr	210	(c)			Radiant energy	
		Plank	1000	S.N. Bose	218.		일시: [1] [1] [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	ens a	re found in the arche	
207				ommunication, works on the			ern?	(L)	2,800,000,000,000	GL 2014)
		ciple of	III C	(SSC CGL 1 <sup>st</sup> Sit. 2013)		(a)			Two	
		regular reflection of	lioh		210	(c)			Four	CT 404 f
		diffuse reflection of			219.		hich angiosperm is			GL 2014)
		refraction of light	ngii	•		(a)		2000	Trochodendron	
		total internal reflect	ion o	flight		(c)	Maize	(d)	Wheat	
	(4)	million i circot	.0.1 0							

220.	Who was the first child born after operative procedure? (SSC CGL 2014)	233						netically Modified vegetable is le in Indian market?
	(a) Caesar (b) Huxley							(SSC CGL 2014)
	(c) William (d) Pasteur		(a)	Ca	rrot		(b)	Radish
221.	Myrmecology is study of (SSC CGL 2014)		(c)		injal			Potato
	(a) Insects (b) Ants	234	100000		-	is mea	sure	l using which of the following
	(c) Crustaceans (d) Arthropods			trume				(SSC CGL 1st Sit. 2015)
222	HIV often changes is shapes due to the presence of an			Volt			(b)	Anemometer
	enzyme called (SSC CGL 2014)				tmeter		200	Ammeter
	(a) Reverse Transcriptase	235			iodism	affects		(SSC CGL 1st Sit. 2015)
	(b) Enterokinase			-	vering			Vegetative growth
	(c) Nucleotidase			Frui	_			All of these
	(d) Nucleoditase	236			e follov	vino ·	(u)	(SSC CGL 1st Sit. 2015)
223	Fleming's right hand rule is used to find the direction of the	250		ton th	I	, mg .		II
225.	(SSC CGL 2014)		Δ	Asc	orbic ac	rid	1.	Photosynthetic
	(a) Alternate current (b) Direct current		11.	1130	or ore at	CIU.	1.	pigment
	(c) Induced current (d) Actual current		B.	Chl	orophyl	1	2.	Quencher
224	The unit of electrical power is (SSC CGL 2014)		C.		otenoid		3.	Enzyme
224.			D.		eroxide		<i>3</i> .	Vitamin-C
	(a) Volt (b) Watt (c) Kilowatt hour (d) Ampere		D.		nutase		4.	Vitallili—C
225	The resistance of the human body (dry condition) is of the			A	B	C	D	
223.	그는 가장 마음을 보고 있는데 그리고 있다면 가장 되는데 마음을 하는데		(0)					
				4	2	1	3	
			(-)			1	3	
226			(c) (d)	4	1 1	3	2	
220.	Certain substances loose their electrical resistance	227			of Emb			(SSC CGL 1st Sit. 2015)
	completely at super low temperature. Such substances are called (SSC CGL 2014)	231.			ration	i yo nei		excretion
			100					
	(a) super conductors(b) semi conductors (c) dielectrics (d) perfect conductors	220			ection	follow		digestion nimals belongs to mollusca?
227		236.	VV II	ich on	ie oi ine	ionow	mg a	(SSC CGL 1 <sup>st</sup> Sit. 2015)
221.			(0)	Hare			(b)	Hydra
	<ul><li>(a) Copper and Zinc (b) Copper and Tin</li><li>(c) Copper and Silver (d) Copper and Nickel</li></ul>							Haliotis
220	(c) Copper and Silver (d) Copper and Nickel Which is the purest commercial form of iron?	220	200	Hyla		ma DN	1.00	found in
440.	(a) Pig iron (b) Steel (SSC CGL 2014)	239.	Out	side ti	ic nucle	cus DIN	A 15	(SSC CGL 1st Sit. 2015)
	(c) Stainless steel (d) Wrought iron		(a)	Mito	chondr	ia		(35C CGL 1 Sit. 2013)
220	In galvanization, iron is coated with (SSC CGL 2014)			Ribo		ıa		
229.	(a) Copper (b) Zinc		(c)		oplasmi	c reticu	lum	
	(c) Tin (d) Nickel		(d)		gi bodies		iuiii	
230	Which one of the following is also known as solution?	240					firet	class protein because it is
250.	(a) A compound (SSC CGL 2014)	240.	Aiii	mai p	rotein i	s carree	mst	(SSC CGL 1st Sit. 2015)
			(a)	i.i.	ious in			(SSC CGL 1 SIL 2013)
	(b) A homogeneous mixture		(a)		per in th		at	
	(c) A heterogeneous mixture (d) A suspension		(b)		in essen			ai da
221			(c)		m essen y digest		mo a	cias
231.	The cells which are closely associated and interacting with guard cells are (SSC CGL 2014)	241					llad b	alloon with a needle than with
	Ţ	271,			s becau	_	iicu o	(SSC CGL 1 <sup>st</sup> Sit. 2015)
	(a) Transfusion tissue (b) Complementary cells						2001111	e than needle on the balloon
	(c) Subsidiary cells							ure than nail on the balloon
	(d) Hypodermal cells		(c)		s reacti		•	
232.					is more			
	(SSC CGL 2014)	242						ist air is more than in dry air
	(a) Stomatal opening	- 14,			he mois			(SSC CGL 1st Sit. 2015)
	(b) Stomatal closing		0.75		pressure		100	
	(c) Stomatal formation				e pressu			
	(d) Stomatal growth				e densit			
					density			
			(-)				,	

243.	X-r	ays can be used		(SSC CGL 1st Sit. 2015)	255.	Rev	erse transcription w	as di	scovered by
	(a)	to detect heart dise	ases.						(SSC CGL 1st Sit. 2015)
	(b)	to detect defects in	preci	ous stones and diamonds.		(a)	Beadle and Tatum		
	(c)	to detect gold under	r the e	earth.		(b)	Watson and Crick		
		for cutting and welc				(c)	Temin and Baltimor	e	
244.	Ice i	s packed in saw dust	becau	use (SSC CGL 1st Sit. 2015)			Har Govind Khoran		
	(a)	saw dust is poor co	nduct	or of heat.	256				nuch more severe than those
	(b)	saw dust is a good	condu	actor of heat.					ise: (SSC CGL 1 <sup>st</sup> Sit. 2015)
		saw dust does not s				(a)			he pores of body quickly
		saw dust will not ge					Temperature of stea		
245.				f glycerol is added to crushed		(c)			3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		nO <sub>4</sub> spread of a pape		(SSC CGL 1st Sit. 2015)			Steam has latent he	_	s the body quickly
		There is a violent ex		on	257				is the avvector succes
	2	There is no reaction	1		231.	VV II	ich among the follow	ving	is the sweetest sugar?
		The paper ignites				(0)	Lastana	(L)	(SSC CGL 1 <sup>st</sup> Sit. 2015)
		There is a crackling					lactose		maltose
246.	Mos	t commonly used blo	eachii		250		glucose		fructose
	()		a) (	(SSC CGL 1 <sup>st</sup> Sit. 2015)	238.	Ultr	a purification of a m	etai i	
	1/	Alcohol Chlorine		Carbon dioxide		(0)	emolting	(b)	(SSC CGL 1 <sup>st</sup> Sit. 2015)
247		least penetrating po		Sodium chloride		33.75	smelting		leaching
247.	THE	icast penetrating po	WCI I	(SSC CGL 1 <sup>st</sup> Sit. 2015)	250		zone melting		slagging
	(a)	α–Ray	(b) B	3-Ray	239.		robiai degradation o nown as :	I nitra	ates into atmospheric nitrogen
				K–Ray				4.	(SSC CGL 1 <sup>st</sup> Sit. 2015)
248				tive sterilizing agent. Which			Ammonification		Denitrification
				results when it readily loses	260	150	Putrefacation	0.00	Nitrifcation
		e oxygen ?		(SSC CGL 1st Sit. 2015)	260.	The	best milch breed in	the w	
			(b) I	Hydrogen			-	a >	(SSC CGL 1 <sup>st</sup> Sit. 2015)
	(c)			Nasant Hydrogen			Deoni		Holstein – Friesian
249.	The	maximum fixation o				1.4.	Sindhi		Chittagong
				(SSC CGL 1st Sit. 2015)	261.		5	vith a	lum in purification process, it
	(a)	Bacteria	(b) F	Fungi		is te	rmed as:	1200	(SSC CGL 1 <sup>st</sup> Sit. 2015)
	(c)	Green plants	(d) F	Protozoa		(a)			adsorption
250.	The	term 'brown air' is us	sed for	r (SSC CGL 1 <sup>st</sup> Sit. 2015)			coagulation		emulsification
		Photochemical smo	g		262.		집 [19] [10] [10] [10] [10] [10] [10] [10] [10		that allows the integration of
		Sulfurous smog				HIV	DNA into the host ce	ll's D	3.10.0000
		Industrial smog							(SSC CGL 1st Sit. 2015)
		Acid fumes					DNA gyrase	335-372	Ligase
251.		xyacetyl nitrate is a		(SSC CGL 1st Sit. 2015)			Integrase		Helicase
		Plant hormone			263.	The	two specific heats of		
		Vitamin							(SSC CGL 1st Sit. 2015)
		Secondary pollutar	nt			(a)	$C_p/C_v = R$	(b)	$C_p - C_v = RJ$
252	N 6338911	Acidic dye	~ =~=	tials has the dual mature of		(c)	$C_p - C_v = R/J$	(d)	$C_p + C_v = RJ$
232		ticle-wave?	g par	(SSC CGL 1 <sup>st</sup> Sit. 2015)	264	. The	e antibiotic penicill	in is	obtained from which of the
		Neutron	(b)	Electron		foll	lowing?		(SSC CGL 1st Sit. 2016)
		Meson		Proton		(a)	synthetic process	(b)	a bacterium
253		metal ion present in				(c)	fungus	(d)	virus infected cells
233.	. 1110	metar ion present in	vitai	(SSC CGL 1 <sup>st</sup> Sit. 2015)	265	. Wh	nich of the following	is in	dicated by the colour of a star?
	(a)	nickel	(b)	cobalt					(SSC CGL 1st Sit. 2016)
		iron		zinc		(a)	weight	(b)	distance
254	200			ven the term rhizosphere			temperature	1020120	size
			0.	(SSC CGL 1 <sup>st</sup> Sit. 2015)	266	000000000000000000000000000000000000000		om g	ives the number of which of the
	(a)	Alexopolus					lowing?	2500	(SSC CGL 1 <sup>st</sup> Sit. 2016)
		Garret				(a)	electrons	(b)	protons
	2000	Hiltner				(c)	neutrons	(d)	neutrons and protons
	(d)	None of the given	optio	ns					

267.	DPT vaccine is categorized as which of the following?  (SSC CGL 1st Sit. 2016)	278. Which of the following acts as best adsorbent? (SSC CGL 1st Sit. 2016)
	(a) Anti viral vaccine	(a) Charcoal
	(b) Anti protozoan vaccine	(b) Activated Charcoal
	(c) Anti rickettsial vaccine	(c) Activated Coconut Charcoal
	(d) A combined vaccine	(d) Carbon black
268.	Which is the highest quality of hard coal? (SSC CGL 1st Sit. 2016)	<ol> <li>The maximum fixation of solar energy is done by (SSC CGL 1<sup>st</sup> Sit. 2016)</li> </ol>
	(a) Anthracite (b) Bituminous	(a) Bacteria (b) Protozoa
	(c) Lignite (d) Peat	(c) Fungi (d) Green plants
269.	For which one of the following, 'Diodes' are generally used	280. 'Parsec' is the unit measurement of
	for? (SSC CGL 1 <sup>st</sup> Sit. 2016)	(SSC CGL 1 <sup>st</sup> Sit. 2016)
	(a) Rectification (b) Amplification	(a) Density of stars (b) Astronomical distance
	(c) Modulation (d) Filtration	(c) Brightness of heavenly bodies
270.	An anemometer measures which of the following?	(d) Orbital velocity of giant stars
	(SSC CGL 1st Sit. 2016)	281. At room temperature, the metal that remains liquid is:
	(a) Speed of light	(SSC CGL 1 <sup>st</sup> Sit. 2016)
	(b) Speed of wind	(a) Mercury (b) Platinum
	(c) Speed of water current	(c) Lead (d) Zinc
	(d) Speed of satellites	282. Which is known as carbolic acid? (SSC CGL 1st Sit. 2016)
271.	Which cell disorder in our body is responsible for colour	(a) Phenol (b) Ethanol
	blindness? (SSC CGL 1st Sit. 2016)	(c) Acetic acid (d) Oxalic acid
	(a) WBC (b) Cone cell	283. Which one of the following substances is normally found in
	(c) Rod Cell (d) Neuron	urine? (SSC CGL 1 <sup>st</sup> Sit. 2016)
272.	Which one of the following forms the base of vegetable	(a) Blood proteins (b) Creatinine
	fibres? (SSC CGL 1 <sup>st</sup> Sit. 2016)	(c) Red blood cells (d) White blood cells
	(a) Cellulose (b) Proteins	284. The thymus gland produces a hormone called
	(c) Fats (d) Oils	(SSC CGL 1 <sup>st</sup> Sit. 2016)
273.	A particle is thrown vertically upward. When it reaches the	(a) thyroxine (b) thymosin
	highest point, it has	(c) thyronine (d) calcitonin
	(SSC CGL 1st Sit. 2016)	285. Blood group AB has (SSC CGL 1st Sit. 2016)
	(a) a downward acceleration	<ul><li>(a) No antigen</li><li>(b) No antibody</li></ul>
	(b) an upward acceleration	(c) Neither antigen nor antibody
	(c) a downward velocity	(d) Both antigen and antibody
274	(d) a horizontal velocity	286. Which vitamins are those, if taken in excess can be dangerous
2/4.	During fermentation of sugar, the compound which is always formed is (SSC CGL 1st Sit. 2016)	as they are stored in the body? (SSC CGL 1st Sit. 2016)
		(a) B Complex (b) E and C
	<ul><li>(a) Methyl Alcohol</li><li>(b) Ethyl Alcohol</li></ul>	(c) B and C (d) A and D
	(c) Acetic Acid	287. Atomic explosion is triggered by (SSC CGL 1st Sit. 2016)
	(d) Ethylene	(a) thermo nuclear reaction
275	The quality or tone of a musical sound produced by a	(b) chemical reaction
213.	stringed instrument depends on (SSC CGL 1st Sit. 2016)	(c) controlled chain reaction
	(a) frequency of vibration	(d) uncontrolled chain reaction
	(b) length of the strings in the instrument	288. The phenomenon of change in direction of light when it
	(c) amplitude of vibration	passes from one medium to another is called
	(d) waveform of the sound	(SSC CGL 1 <sup>st</sup> Sit. 2016) (a) Propagation (b) Reflection
276.	Removal of carbon particles from air involves the principle	(a) Propagation (b) Reflection (c) Refraction (d) Dispersion
	of (SSC CGL 1 <sup>st</sup> Sit. 2016)	289. When ice cubes are made, the entropy of water
	(a) Precipitation (b) Filteration	(SSC CGL 1 <sup>st</sup> Sit. 2016)
	(c) Electrophoresis (d) Sedimentation	(a) does not change
277.	Which light is least effective in photosynthesis?	(b) decreases
	(SSC CGL 1st Sit. 2016)	(c) increases
	(a) Blue light (b) Green light	(d) may either increase or decrease depending on the
	(c) Red light (d) Sunlight	process used

290.	Two vectors are said to be equal if (SSC CGL 1st Sit. 2016)		Which enzyme is obtained from	om Re	
		6	() 7	(L)	(SSC CHSL 2012)
	(a) only their magnitudes are same		(a) Zymase		Maltase
	(b) only their directions are same	204	(c) Diastase		Urease
	(c) both magnitude and direction are same	304.	A radioactive substance has		
	(d) magnitudes are same but directions are opposite		Three-fourth of the substance	e will	
	The chemical component that is invariably found in all viruses is (SSC CGL 1st Sit, 2016)				(SSC CHSL 2012)
		9	(a) 8 months		12 months
	(a) proteins (b) lipids (c) DNA (d) RNA		(c) 4 months	(d)	6 months
		305.	Chiropterophily means:	102	(SSC CHSL 2012)
292,	Which is used as an Air pollution indicator?		(a) production of flowers		pollination by wind
	(SSC CGL 1 <sup>st</sup> Sit. 2016) (a) Algae (b) Fungi		<ul><li>(c) pollination by bat</li></ul>		production of leaves
	(a) Algae (b) Fungi (c) Bacteria (d) Lichens	306.	Which one among the follow	ing is	
	Salination of soil is caused by (SSC CGL 1st Sit. 2016)	20			(SSC CHSL 2012)
	(a) Pesticides (b) soil erosion	10	(a) Germanium		Sulphur
			(c) Graphite	(d)	Indium
	(c) excess irrigation (d) crop rotation Which enzyme digests proteins in the stomach?	307.	Longest cell in human body i	s:	(SSC CHSL 2012)
294.	(SSC CGL 1st Sit. 2016)	20	(a) Blood cell		Bone cell
		100	(c) Nerve cell	(d)	Muscle cell
	(a) Trypsin (b) Pepsin	308.	The acid rain destroys the ve	getatio	on because it contains:
	(c) Salivary amylase (d) Pancreatic canal		5		(SSC CHSL 2012)
295.	Fermentation is a type of process.		(a) Ozone	(b)	Carbon monoxide
	(SSC CGL 1 <sup>st</sup> Sit. 2016)		(c) Sulphuric acid	(d)	Nitrates
	(a) Aerobic Respiration	309.	Activated sludge treatment is		
	(b) Anaerobic Respiration		(a) Preliminary treatment		Biological treatment
	(c) Exothermic Reaction		(c) Pre treatment		Chemical treatment
	(d) Transpiration Which next of the plant is used as leaffeer!	310.	Caustic soda is :	0.0	(SSC CHSL 2012)
290.	Which part of the plant is used as 'saffron'?		(a) deliquescent	(b)	oxidant
	(a) Petals (b) Stamens		(c) reductant		efflorescent
	17-20-4 17-18-20-20-4 17-20-4 18-20-4 18-20-4 18-20-4 18-20-4 18-20-4 18-20-4 18-20-4 18-20-4 18-20-4 18-20-4	311.	Red light is used in traffic si		
207	(c) Style and Stigma (d) Sepals		because:	0	(SSC CHSL 2012)
291.	Suspended colloidal particles in the water can be removed by the process of: (SSC CHSL 2012)		(a) eye is more sensitive to r	ed lig	
	(a) Filtration (b) Adsorption		(b) it is least scattered and		
	(c) Absorption (d) Coagulation		from long distance.		, , , , , , , , , , , , , , , , , , , ,
298.			(c) it is very pleasant to the	eve.	
290.	(a) hyperactivity of thyroid (b) hypoactivity of thymus		(d) it is visible even to longs	11.	d neonle
	(c) hypoactivity of thyroid (d) hyperactivity of thymus	312	What is a neuron?	nge	(SSC CHSL 2013)
299	A white solid 'A' on heating gives off a gas which turns lime		(a) Basic unit of nervous sy	stem	(550 01152 2010)
277.	water milky. The residue is yellow when hot but turns white		(b) Basic unit of energy		
	on cooling. The solid A is: (SSC CHSL 2012)		(c) Particle released during i		ctivity
	(a) Zinc Carbonate (b) Lead Sulphate		(d) The anti-particle of neutro		,,
	(c) Lead Carbonate (d) Zinc Sulphate	313	A cellulosic wall is found in the		of (SSC CHSL 2013)
300.	Which of the following is the strongest coagulant?	2.2.	(a) plants		animals
	(SSC CHSL 2012)		(c) bacteria		fungi
	(a) Zinc Chloride (b) Aluminium Chloride	314.	The filtration unit of kidney is	(-)	(SSC CHSL 2013)
	(c) Barium Chloride (d) Magnesium Sulphate		(a) yellow fiber	(b)	axon
301.	The property which is seen in light wave but not in sound		(c) nephron		neuron
	wave is: (SSC CHSL 2012)	315	The nutritive tissue in the seed		
	(a) Diffraction (b) Refraction	0.0.	as	011	(SSC CHSL 2013)
	(c) Polarization (d) Interference		(a) nucellus	(b)	(SATE)
302.	Iron and manganese are removed in water by the process		(c) embryo	(d)	
	of: (SSC CHSL 2012)	316	. Yeast is an important source of	200	(SSC CHSL 2013)
	(a) Chlorination (b) Filtration		(a) protein		vitamin B
	(c) Lime-soda treatment (d) Aeration		(c) invertase	(d)	
			AND THE PROPERTY OF THE PROPER	1-7	- version de de la companya de la co

317.	Enz	ymes are			327.	From	m which part of Opium P	lant v	ve get morphine?
	(a)	Lipids	(b)	Steroids					(SSC CHSL 2014)
		Carbohydrates		Proteins		(a)	Leaves		Stem
318.	Hea	ting of an ore below it	ts me	elting point in the absence of	10.000000	(c)	Bark		Fruit coat
	air i	s known as		(SSC CHSL 2013)	328.		na antara de la filipi de la caracteria de la filipi de la caracteria de la comunicación de la comunicación de	a Bi	ological method of soil
	(a)	Smelting	(b)	Refining			servation ?	171.4475411	(SSC CHSL 2014)
	(c)	Calcination	(d)	Roasting		(a)	Contour farming	1000	Contour terracing
319.	The	most electronegative	elem	ent among the following is	220	(c)	Gully control	(d)	Basin listing
				(SSC CHSL 2013)	329.		cose is a type of	4.	(SSC CHSL 2014)
	(a)	Oxygen		Fluorine		(a)	Pentose sugar		Hexose sugar
	(c)	Sodium	(d)	Chlorine	220	(c)	Tetrose sugar		Diose sugar
320.	Mar	k the compound whi	ch p	ossesses ionic, covalent and	330.	Nui	nber of mitochondria in b	acter	
	co-o	ordinate bonds.		(SSC CHSL 2013)		(0)	one	(b)	(SSC CHSL 2014)
	(a)	H <sub>2</sub> O	(b)	NH <sub>4</sub> C1		(a) (c)	one		two zero
	(c)	$SO_3$	(d)	S0 <sub>2</sub>	331	3130	nbow is formed due to	(u)	(SSC CHSL 2014)
321.	The	depletion of Ozone la	yer i	s mainly due to	331.	(a)	refraction and dispersi	on	(SSC CHSL 2014)
				(SSC CHSL 2013)		(b)	scattering and refraction		
	(a)	Chlorofluorocarbons	S			(c)	diffraction and refraction		
	(b)	Volcanic eruptions				(d)	refraction and reflection		
	(c)	Aviation fuels			222	N			(CCC CHCL 2014)
		Radioactive rays			332.		len view of sea shell is du Diffraction		(SSC CHSL 2014)
322			tions	agents given in List I with		(a) (c)	Polarization		Dispersion Reflection
Jak		diseases caused by the			333		bject covers distance whi		
		anseases eaused by the	<u>6</u> .	(SSC CHSL 2013)	333.		quare of the time. Its accel		
		List I		List II		(a)	increasing		decreasing
	a.	Bacterium	1.	Kala-azar		(c)	zero		constant
	b.	Fungus	2.	Tuberculosis	334.		horizontal range of a proje		
	c.	Protozoan	3	Influenza	27.50		ht, the angle of projection		(SSC CHSL 2014)
	d.	Virus	4.	Ringworm		(a)		(b)	
				a-1, b-2, c-4, d-3		8101			
		a-2, b-4, c-1, d-3		a-3, b-1, c-2, d-4		(c)	$\sin^{-1}\left(\frac{1}{4}\right)$	(d)	$\tan^{-1}\left(\frac{1}{4}\right)$
323.		ter waves are		(SSC CHSL 2013)			V./		V . V
	(a)	Longitudinal waves		,	335.	Whi	ch of the following metal:	s has	
		de Broglie waves				1910	2012	02020	(SSC CHSL 2014)
		Electromagnetic way	es			(a)	Gold	200	Silver
	1000000	Transverse waves				(c)	Mercury		Copper
324.	Whe	en the milk is churned	d vig	orously the cream from it is	336.		gas produced in marshy	place	
		rated out due to	_	(SSC CHSL 2013)			egetation is Carbon monoxide	(h)	(SSC CHSL 2014)
	(a)	Centrifugal force	(b)	Centripetal force		(a) (c)	Sulphur dioxide		Methane
	(c)	Gravitational force	(d)	Frictional force	337		actus, the spines are the n		
325.	Gas	thermometers are	more	sensitive than the liquid	331.	(a)	stem		sripules
		mometers because th				(a)	leaves	0.00	buds
	(a)				338	( a)	smallest known prokaryo	1000	
	(b)	have large coefficien		expansion	550.	THE	smanest known prokaryo	tic or	(SSC CHSL 2014)
	0.500	are lighter		80. <b>■</b> 1.80 (1971 40 (198)		(a)	Microcystis	(b)	Mycoplasma
	10000	have low specific he	at			(c)	Bacteria		Chlorella
326.	0.07.500%			not caused by atmospheric	339.	100	ording to your text, wha		
		action of light?		(SSC CHSL 2013)			tic library that keep life g		
	(a)	977	two	or three minutes before actual		_		J	(SSC CHSL 2014)
	2352	sunrise				(a)	A bio-engineering lab		2 T 2
	(b)	Sun appearing red a	t sun	set		(b)	Human genes		
	(c)	Twinkling of stars at				(c)	The human genome pro	ject	
	(d)			he sky than it actually is		(d)	Biodiversity		

340.	The due (a)		decre	eases at higher altitudes is (SSC CHSL 2014)	352.	con	tant objects are visible dition:		little out of focus in this (SSC CHSL 2015) presbiopia
	(b)	low atmospheric press	ure			2112	astigmatism		myopia
	(c)	74.75% 747 TV			353.		ximum oxygen is availal		
	(d)		sure			(a)	Green forests		
341.	The			po"commonly used in		(b)	Deserts		
		tography is		(SSC CHSL 2014)		(c)	Grass lands		
		Sodium thiosulphate	(b)	Silver nitrate		(d)	Phytoplanktons		
		Sodium nitrate		Silver iodide	354.			+ B →	C+D one could ensure it
342.	Solo	dering of two metals is p	ossib	le because of the property			e a first order reaction		(SSC CHSL 2015)
	of:			(SSC CHSL 2015)			Increasing the concen		n of a reactant
	(a)	Osmosis	(b)	Viscosity			Adding a catalyst		
	(c)	Surface tension		Cohesion		(c)	Increasing the temper	ature	
343.	Stal	actites & Stalagmites for	rm di	ue to the precipitation of:			Increasing the concer		n of a product
				(SSC CHSL 2015)	355.	The	e amount of matter in a	ball of	steel is its:
	(a)	CaCl <sub>2</sub>	(b)	MgCO <sub>3</sub>					(SSC CHSL 2015)
	(c)	MgCl <sub>2</sub>	(d)	CaCO <sub>3</sub>		(a)	Mass	(b)	Density
344.	Wh	ich of the following is a	form	of sexual reproduction:		(c)	Volume	(d)	Weight
				(SSC CHSL 2015)	356.	Tra	inspiration increases in	:	(SSC CHSL 2015)
	(a)	Fission	(b)	Fragmentation			Hot, damp and windy		
	(c)	Budding	(d)	Harmaphroditism		(b)	Cool, damp and wind	y cond	lition
345.	In w	hich region of electroma	gnetic	c spectrum does the Lyman		(c)	Cool, dry and still con	dition	
	seri	es of hydrogen atom lie	?	(SSC CHSL 2015)		(d)	Hot, dry and windy co	nditio	on
	(a)	x-ray	(b)	Ultraviolet	357.	Ifx	ylem and phloem are arr	anged	l in the same radius, such a
	(c)	Visible	(d)	Infrared		vas	cular bundle is called:		(SSC CHSL 2015)
346.	An	electrochemcial cell whi	ich is	used as a source of direct		(a)	bicollateral	(b)	concentric
	elec	ctrical current at cons	tant	voltage under standard		(c)	radial	(d)	collateral
	con	ditions is called a:		(SSC CHSL 2015)	358.	Pla	nk's constant has the di	imens	ions of:
	(a)	Power transistor							(SSC CHSL 2015)
	(b)	Battery				(a)	linear momentum	(b)	angular momentum
	(c)	Generator				(c)	force	(d)	energy
	(d)	Uninterrupted power s	upply	(UPS)	359.	The	e most abundant elemen	t by nu	umber in the living system
347.	A li	ght wave is incident over	er a p	lane surface with velocity		is:			(SSC CHSL 2015)
	X. A	After reflection the veloc	ity be	ecomes :			Hydrogen	(b)	Oxygen
				(SSC CHSL 2015)			Carbon		Nitrogen
	(a)	X	(b)	2x	360.				non helps to conclude that
		x		X		ligh	nt is a transverse wave?		
	(c)	4	(d)	2		(a)	diffraction	(b)	polarisation
348.	The	area reserved for the we	lfare	of wild life is called			refraction		interference
				(SSC CHSL 2015)	361.				Tamil Nadu, which district
	(a)	Sanctuary		Botanical garden		is u	nfit for cultivation due	to incr	
	300	Forest	3000	National pak					(SSC CHSL 2015)
349.	The	gas dissolved in water	that r			(a)	Tiruchirapalli		Nagapattinam
				(SSC CHSL 2015)	2/2		Ramanathapuram		Coimbatore
		ammonia		hydrogen	362.		tural system of classif	icatio	
	27.0	sulphur dioxide		carbon dioxide			anists.		(SSC CHSL 2015)
350.				ture, oblique eye with an			German		Swedish
	epic	canthic fold is the charac	eteris		2.0		British		Indian
		01 17 40 2027	(2020)	(SSC CHSL 2015)	363.	Mı	namata disease is cause	ed by p	
	8500500	Australoids		Negroid			- Julion	4.5	(SSC CHSL 2015)
		Mongoloid	3000	Cancosoid		(a)	tin		methyl isocyanate
351.	Chr	omosome designation of	f Tur		77 <u>2</u> 724	(c)	mercury	(d)	lead
				(SSC CHSL 2015)	364.		"King of Metals" is:	V. 1	(SSC CHSL 2015)
	0.00	44A+XO		44A+XXY		3.0	Silver		Iron
	(c)	44A + XXX	(d)	44A+XYY		(c)	Aluminium	(d)	Gold

365.	Am	ino acids are required	for the		378	. In a	water lifting electric p		
	7-1	Y 1. 14.	(L)	(SSC CHSL 2015)		(-)	1	13.76	SSC Multitasking 2013)
		Lipids		Proteins		(a)			
200		Carbohydrates		Alkaloids			electrical energy into		
366.	Ine	most suitable unit for	expres			(c)	kinetic energy into el		
			4.5	(SSC CHSL 2015)	250	(d)			
	(a)	fermi	(b)	0	3/9				biles to see the traffic on
		micron		nanometre			rear side is	1,550,000	SSC Multitasking 2013)
367.	Blo	wing Air with open pip	e is an			(a)	Convex		Concave
				(SSC CHSL 2015)			Plano-Convex		Plane
		Isochoric Process		Isobaric process	380	The	hottest part of the gas		
	(c)	Adiabatic process	(d)	Isothermal process				(5	SSC Multitasking 2013)
368.	Chr	ristmas factor is involve	ed in:	(SSC CHSL 2015)		(a)	dark zone	(b)	blue zone
	(a)	Excretion	(b)	Digestion		(c)	non-luminous zone	(d)	luminous zone
	(c)	Respiration	(d)	Blood Coagulation	381	Wh	ich of the following rac	liations l	has the least wavelength?
369.	Whi	ch one out of the follow	ving he	elps in burning				(5	SSC Multitasking 2013)
				SSC Multitasking 2013)		(a)	β-rays	1,000	X-rays
	(a)	Carbon dioxide	2000	Oxygen		(c)	70 B)		γ-rays
		Carbon monoxide	10.00	Nitrogen	382		e earth is a		SSC Multitasking 2013)
370		rganic compounds, nit			-	(a)	bad absorber and bad		[18] [16] [16] [16] [16] [17] [18] [18] [18] [18] [18] [18] [18] [18
570.	111 01	- compounds, me	_						of ficur
		550 NN 包 数	(:	SSC Multitasking 2013)		(b)	good reflector of heat		
	(a)	Dumas' method				(c)	non-absorber of heat		
		Carius method				(d)	good absorber and go		
	(c)	Victor-Meyer's metho	d		383.	BC	3 vaccination is given a	at the ag	e of
	(d)	Liebig's method						(S	SC Multitasking 2013)
371.	Mast	ter copy of genetic info	rmatio	n is		(a)	Within 15 days	(b)	2 – 3 years
			(	SSC Multitasking 2013)		(c)	10 years	(d)	Newborn
	(a)	DNA		Nucleus	384.	Wh	ich of the following	atmosp	heric gases constitute
	(c)	r-RNA	(d)	m-RNA			enhouse gases?		SSC Multitasking 2013)
	1.3	raceptive pills in the m				1.	Carbon dioxide	2.	Nitrogen
				SSC Multitasking 2013)		3.	Nitrous oxide	4.	Water vapour
	(a)	steroid-hormones		550 1141111111111 g 2 0 10)		2.50000	ect the correct answer u		
	(b)	inorganic compounds					1, 2 and 4		1, 3 and 4
	(c)	herbicides				3000	1, 2 and 4	88 88	1 and 3
	(d)	antibiotics			385		drogen bomb is based of		
		atocysts are present in		SSC Multitasking 2013)	303.	119	arogen bonno is based (		SC Multitasking 2014)
	2	Sea anemone		Starfish		(0)	Double decompositi		SC Mulitasking 2014)
	(a)					(a)	Double decompositi		
	1.	Ascaris		Centipede		(b)		ty	
		ch of the following m	icro-or	ganisms is used in milk		(c)	Nuclear fission		
				SSC Multitasking 2013)	206		Nuclear fusion		
	70 00	Lactobacillus	1000	Acctobacter	386.	The	e commonly used safet		
		Leuconostoc		Bacillus		5733	122 (2012) 2 2		SC Multitasking 2014)
375.	Whi	ch of the following is p		n Chlorophyll molecule?		(a)			
				SSC Multitasking 2013)		(b)			
		K		Mn		(c)	•		
	(c)	Mg	(d)	Fe		(d)	an alloy of Lead and	l Iron	
376.	Whe	n a body falls from an	aeropla	ne, there is increase in its	387	At	what temperature is the	e density	of water the maximum?
			(	SSC Multitasking 2013)				(9	SSC Multitasking 2014)
	(a)	potential energy				(a)	2°C	(b)	4°C
	(b)	kinetic energy				(c)			1°C
	(c)	mass			388		e linear expansion of a		
	(d)	acceleration				7.55			SSC Multitasking 2014)
377		it does 'Ozone Layer'	absorb	)		(a)	increase in temperat	2.50	
511.	** 110	a does Ozone Layer		SC Multitasking 2013)		(b)	0 30.60 Str	uic	
(0)		0170		[10] [15] [15] [15] [15] [15] [15] [15] [15		0.00			
(a)	10.50	ays	101	Infrared rays		(c)	1		
(c)	Uli	traviolet rays	(a)	X-rays		(d)	material		

389.	Cath	ode rays when obstructed		metal cause emission of SC Multitasking 2014)		(a) (c)	Fractional crystallisatio Distillation	700	Decantation Sublimation
	(a)	γ- rays		X-rays	404	200	SO <sub>4</sub> cannot be used as	1.7	SSC Multitasking 2014)
	(c)	α-rays	77.5	β-rays	.404.	-			
390.		is the father of biology?		SC Multitasking 2014)		(a)		3.55	Food preservative
390.	2000	Lamarck		Robert Hooke	***	(c)	Drying agent	(d)	
	(a) (c)	Aristotle	33.5	Pasteur	405.	The	red colour of ripe tom	atoes	is due to the presence of
201		smallest unit of classifica							(SSC Sub. Ins. 2012)
391.	The	smallest unit of classifica				(a)	Hormones		Vitamins
		0		SC Multitasking 2014)		(c)			Carotenoids
	(a)	Species		Genus	406.	Ant	icoagulants are not pre	sent i	n
202	(c)	Family		Order					(SSC Sub. Ins. 2012)
392.		nchyma is present in	0.00	SC Multitasking 2014)		(a)	Mosquito	(b)	Bed bug
	(a)	Banana stem	300	Palm stem		(c)	Leech	(d)	Wasp
	(c)	Aquatic plants	1.75.7	Xerophytic plants	407.	Veg	etation is effective in al	sorbi	ing (SSC Sub. Ins. 2012)
393.	The	deficiency of vitamin A c					Pollutant gases		Polluted water
		2		SC Multitasking 2014)			High frequency sound	20,000	
	(a)	Scurvy	1000	Night blindness	408.				watery discharge from the
	(c)	Beri-Beri	100	Dermatitis	1005		e due to activation of	13 4	(SSC Sub. Ins. 2012)
394.	Clov	e is a	(S	SC Multitasking 2014)				AR	그림 - [경기: 100] [기기 : [기기 : 100] [기] [기기 : 100] [기] [기기 : 100] [기] [기] [기] [기] [기] [기] [기] [기] [기] [기
	(a)	Dried flower bud	(b)	Flower		(a)	Salivary gland		Lachrymal gland
	(c)	Fruit	(d)	Seed			Thyroid gland		Endocrine gland
395.	On	heating, Gypsum loses co	rtair	percentage of its water	409.	The	fundamental role of ro	ot han	
	cont	ent and becomes	(5	SC Multitasking 2014)		222	20 20 20 20	902	(SSC Sub. Ins. 2012)
	(a)	Chalk	(b)	Calcium sulphate		(a)		ot fro	m damage by coarse soild
	(c)	Plaster of Paris	(d)	a pearl			particles		
396.	The	name of the scientist wh	o dis	covered neutron is		(b)	to protect the root from	n soil	microbes
			(5	SC Multitasking 2014)		(c)	to absorb water and m	ineral	salts from the soil
	(a)	Fermi		Rutherford		(d)	to bind soil particles to	ther	oot for firm fixation of the
	(c)	Chadwick	(d)	Bohr			plant		
397.	The	bubbles in Champagne a	nd S	oda are	410.	Cat	ch crops are		(SSC Sub. Ins. 2012)
				SSC Multitasking 2014)		(a)	crops painted to attr	act c	ertain insect pests to be
	(a)	Nitrogen		Oxygen		08.50	destroyed		
	(c)	Carbon dioxide		Hydrogen		(b)		ict ce	rtain useful insects to be
398.	Gob	ar gas contains mainly		SC Multitasking 2014)		60	used for biological co		
	(a)	Butane		Carbon monoxide		(c)	crops to be cut and fe		
	(c)	Methane		Carbon dioxide					the regular crop has failed.
399.		rbon Credit" is a term ass	X		411	77.75	pigment that protects p		
		our cream to a remines		SSC Multitasking 2014)		THE	piginent mat protects p	nams	[12] [12] 전 12 [12] [12] [12] [12] [12] [12] [12] [
	(a)	Global deforestation	1.	oc (Tantasang 2011)		64	Chlorodoll	0.1	(SSC Sub. Ins. 2012)
		Offshore banking					Chlorophyll		Xanthophyll
	(c)	Protection of environme	mt			117053	Phycocyanin	Contraction of the	Carotenoids
	2.0		an		412.		CONTROL MORE IN CONTROL	d by to	ermentation to supplement
***	(d)	Deforestation in India		DO FIN COLON AND C		foss	sil fuel petrol is		(SSC Sub. Ins. 2012)
400.	The	green colour of plant lea				(a)	Kerosene	(b)	Ethanol
	100	23 W		SC Multitasking 2014)		(c)	Diesel	(d)	Methane
	(a)	Protein		Chlorophyll	413.		e substance that causes		
	(c)	Cellulose	C 100 C 100 C	Starch	3424				(SSC Sub. Ins. 2012)
401.	Tem	perature is measured by the	he in	strument called		(a)	Smoke	(b)	Sulphur dioxide
			(5	SC Multitasking 2014)		4.	Carbon dioxide		Carbon monoxide
	(a)	Voltmeter	(b)	Calorimeter	41.4	3.05		0.09.7	
	(c)	Thermometer	(d)	Ammeter	414.		iquid is said to boil who		
402.	The	pH of pure water is	(5	SC Multitasking 2014)					e surrounding pressure
		Seven		Foruteen		(b)	vapour pressure vani	shes t	
		WWW.01100				6.5			

415.	Whi	ch is not correct regar	ding	7	425.	5. The heaviest naturally occurring element is:				
				(SSC Sub. Ins. 2012)					(SSC Sub. Ins. 201	3)
	(a)	The reaction is slow				(a)	Mercury	(b)	Polonium	
	(b)	The reaction is fast				(c)	Thorium	(d)	Uranium	
	(c)	Compounds are usual	ly liq	uids and gases	426.	Haj	otens are:		(SSC Sub. Ins. 2013	)
	(d)	Boiling points and me	lting	points are low		(a)	Pseudoantigens	(b)	Incomplete antigens	1000
416.	Cho	ose the correct stateme	ent	(SSC Sub. Ins. 2012)		1000000	Antibodies	* * * * * * * * * * * * * * * * * * * *	Isoantigens	
	(a)	The components of a	mixtu	ire cannot be separated	427.	Sul	phur dioxide bleaches		_	
				are the same as those of its	10.1 <del>1.10</del> .11.15				(SSC Sub. Ins. 201	3)
	V 2	components				(a)	Reduction	(b)	Dehydration Dehydration	,
	(c)	Mixtures are homoge	neous				Decomposition	10000	Oxidation	
				s are present in a fixed ratio	128		ich of the following e			
417.		is obtained by the pol			720.	** 11	ich of the following c	icilicili	(SSC Sub. Ins. 201	3)
				(SSC Sub. Ins. 2012)		(0)	Radium	(b)	Plutonium	3)
	(a)	Propene	(b)	Vinyl chloride						
	(c)	Styrene	0.00	Acetylene	420		Zirconium		Uranium	
418		liminate the glare of he	10000	V	429.	W1	ting of plants occurs	due to		•
110.	100	illimitate the glare of he	ading	(SSC Sub. Ins. 2012)		12.0			(SSC Sub. Ins. 201	3)
	(2)	polaroids are used	(b)	glass prisms are used		(a)	Respiration	200	Guttation	
						(c)	Absorption	(d)	Transpiration	
410		thin films are used		filters are used	430.	Gy	sum is used for impro	vemen	t of:	
419.			infin	ite electrical resistance are					(SSC Sub. Ins. 2013	3)
	calle			(SSC Sub. Ins. 2012)		(a)	Alkaline soils	(b)	Saline soils	
		insulators		condensers		(c)	Podsols	(d)	Acidic soils	
		conductors		resistors	431.	Ind	icate the correct arr	angen	ent for electromagneti	ic
420.		nless steel is an alloy of		(SSC Sub. Ins. 2012)			iation in order of their			
		iron, chromium and ni							(SSC Sub. Ins. 2013	3)
	237	iron, chromium and ca	arbon			(a)	Microwave, infrared	. visible	7 10.11 25	,
	(c)	iron, carbon and zinc					X -rays, visible, infra			
		iron, zinc and mangar					Visible, infrared, mic			
421.	Enr	iched uranium used in	a nucl				X - rays, infrared, vis		NAME OF THE OWNER	
				(SSC Sub. Ins. 2012)	432				nytoplankton covering th	10
		uranium free of all imp			732.		face water of a lake or			
	(b)	uranium treated with				Sur	dec water of a lake of	pond	(SSC Sub. Ins. 2013	(1
	(c)	uranium alloyed with a				(a)	Eutrophication		(550 500: 113: 2013	,
				tage of a particular isotope		The second second	Water bloom			
422.	In a	refrigerator, cooling is	prod				Water pollution			
				(SSC Sub. Ins. 2012)		(d)				
		the ice which deposits			122		ngs of birds are:		(SSC Sub. Ins. 2013)	
		the sudden expansion			433.		그들 시간에 가장하셨다. 그러워 하는 그리는 그리는 그리는 그리는 그리는 그리는 그리는 그리는 그리는 그리		(SSC Sub. 1118. 2013)	
	0.00	the evaporation of a v	olatil	e liquid		100	Modified hind limbs			
		None of these					New structure			
423.	Wh	ich one of the follow	ng st	atements about Pyrolysis		(c)	Integumentary outgr	rowtn		
	whi	ch is a process for solic	was	e treatment is incorrect?		200	Modified fore limbs			
				(SSC Sub. Ins. 2013)	434.	Spo	ontaneous change is o	ne in v	which there is	
	(a)	It converts the waste in	nto so	lid, liquid and gas of which					(SSC Sub. Ins. 201	3)
				as can be used to produce		(a)	A lowering of entrop	ру		
		energy.		•		(b)	A lowering of free en	nergy		
	(b)		t a ter	nperature above 430°C at			Increase in free ener			
	(-)	atmospheric pressure					An increase in Inter		ergy	
	(c)			gh pressure at temperature	435.	3313	ndstone is metamorph			3)
	(0)	above 430°C.	aci ii	ign pressure at temperature			Shale		Slate	,
	(d)		deco	mposition of organic waste		200	Quartzite		Marble	
				particle nature of photons?	436.			100	aviour of a vibrating strin	19
424		CHOLUE IOHOWING SIII		p neve or priorons:	100.		asea to study t			
424.		ich of the following sup		프랑		18			(SSC Sub. Inc 2013)	
424.	Whi	Section Action	58 S	(SSC Sub. Ins. 2013)		is (a)	Rarometer	(b)	(SSC Sub. Ins. 2013) Hydrometer	,
424.		Diffraction Photoelectric effect	58 S	프랑		(a) (c)	Barometer Hygrometer	(b) (d)	(SSC Sub. Ins. 2013) Hydrometer Sonometer	,

437.	The	casual organism of Pol			449.				ted for nitrogen in the air
	(a)	A fungi	(b)	A virus		used	I by deep sea divers for	brea	
		A worm		A bacteria					(SSC Sub. Ins. 2014)
438.	Pano	da belongs to the same	family	as that		(a)	Neon		) Krypton
				(SSC Sub. Ins. 2013)		(c)	Argon		l) Helium
	(a)	Kangaroo	(b)	Porcupine	450.	Hov	many neutrons are the	ere in	
	(c)	Whale	(d)	Bear					(SSC Sub. Ins. 2014)
439.	The	pancreas secretes		(SSC Sub. Ins. 2014)		(a)	92	(t	) 238
	(a)	Insulin	(b)	Bile juice		(c)	146	(0	1) 330
	(c)	Peptic juice	(d)	None of these	451.	Roo	t pressure is measured	by	(SSC Sub. Ins. 2014)
440.	Whe	en we touch leaves of "	Fouch 1	ne not plant", they close,		(a)	Barometer		) Atmometer
	these	e movements are called	1	(SSC Sub. Ins. 2014)		(c)	Manometer		Auxanometer
	(a)	photonastic moveme	nts		452.	Cell	becomes turgid becau		
	(b)	nyctinastic movemen	its			(a)	Plasmolysis		) Exosmosis
	(c)	seismonastic movem				(c)	Endosmosis		l) Diffusion
	(d)	chemonastic moveme	ents		453.	The			/es (SSC Sub. Ins. 2014)
441.	The	concept of tissue cultu	ire was	introduced by		(a)	diffusion		capillary action
		50 (490.0 TO 19 <b>-6</b> 0.0 ) . (19-000.999.490.190.190.190.190.190.190.190.190.190.1		(SSC Sub. Ins. 2014)		(c)	absorption	(0	
	(a)	Halfmeister	(b)	Hanstein	454.	A ce	ell increases in volume v	when	
	(c)	Haberlandt	(d)	Hanning					(SSC Sub. Ins. 2014)
442.	Beal	c is formed by		(SSC Sub. Ins. 2014)		(a)	Hypertonic solution		Hypotonic solution
	(a)	cheeks	(b)			(c)	Isotonic solution	(0	None of these
	(c)	teeth	1000000	none	455.	Are	versible and an irreversib	ole en	gine are working between
443		na (external ear) is prese		(SSC Sub. Ins. 2014)			ame limits of temperatu		
773.	(a)	amphibian		fish					(SSC Sub. Ins. 2015)
	(c)	mammal		reptile		(a)	The reversible engine i	s gre	ater than the irreversible
444		ty of a metal can be det	17.57.50				engine.		
	(a)	Pascal's law	crimine	(SSC Sub. Ins. 2014)			Each engine is 100%.		
	(b)	Boyle's law		(550 545) 1113, 2014)			The two engines are eq		
	(c)	Archimedes principle	90			(d)		is gr	reater than the reversible
	(d)	Conservation of mass		ple		2022	engine.	1202	
445.				of a body is increased to	456.	Whi	ch of the following is us	ed in	the treatment of cancer?
				ic energy will increase by			F1	4.	(SSC Sub. Ins. 2015)
				(SSC Sub. Ins. 2014)		12.00	Electrotherapy		Psychotherapy
	(a)	2 times	(b)	4 times	457		Chemotherapy		Physiotherapy
	(c)	8 times	(d)	16 times	437.		most abundant element		(SSC Sub. Ins. 2015) Calcium
446.	Two	bodies kept at a certa	in dist	ance feel a gravitational		0.50	Silicon	200	Oxygen
				ce between them is made	150		Nitrogen		ther magnifications than
	dou	ble the former distance	, the for	rce will be	430.		ptical microscope becar		
				(SSC Sub. Ins. 2014)					gy than the light particles.
	(36006)	25		1_					s more powerful lenses.
	(a)	2F	(b)	2 r					is smaller as compared to
				24°			the wavelength of visib		
	(c)	4F	(d)	<del>i</del> F		(4)			maller than that of light.
	09.00			4	459		t does the word 'amphi		
447.	12 20	ionary wave is formed	V 2	(SSC Sub. Ins. 2014)	137.	** 110	t does the word ampin	oran	(SSC Sub. Ins. 2015)
	(a)	The state of the s		ng a longitudinal wave		(a)	Two lives	(b)	Four lives
	(b)	two waves of the san							One life
	(c)		equeno	cy travelling in the same	460.		ogen in water is commo		
	(4)	direction			000000000000000000000000000000000000000			, ,	(SSC Sub. Ins. 2015)
	(d)		quency	travelling in the opposite		(a)	Nitric oxide	(b)	Nitrous oxide
440	τ	direction					Nitrate		Nitrite
448.	In a	n oxygen molecule, two	atoms	are united by	461.	Imm	unization technique wa	is dev	eloped by
	(a)	the bond		two bonds			Louis Pasteur		Robert Koch
	(c)	three bonds	(d)	four bonds		(c)	Joseph Lister	(d	
						(-)	AND CONTROL OF THE CO	1	en entre constant de la constant

462.	The hydrophilic nature of DNA is due to the presence of (SSC Sub. Ins. 2015)  (a) a number of hydrogen bonds		Which of the following deterrorganisms that is from the san from a common source or from	ne genus and species arise
	(b) phosphate group			(SSC Sub. Ins. 2016)
	(c) deoxyribose sugar		(a) Biotyping	
	(d) thymine base		(b) DNA hybridization / DNA	
463.	The sense of balance is achieved by		(c) Serotyping	
	(SSC Sub. Ins. 2015)		(d) Phage typing	
	(a) Cerebellum equilibrium	475.	Starch is insoluble in water bu	it still it is stored in large
	(b) Thalamus equilibrium		quantity in potato because	(SSC Sub. Ins. 2016)
	(c) Cerebrum equilibrium		(a) soil microorganisms depo	sit it in the tuber.
	(d) Spinal cord equilibrium		(b) it is synthesized in potato	root.
464.	Aluminium salt commonly used to stop bleeding is		<ul><li>(c) it is useful for human.</li></ul>	
	(SSC Sub. Ins. 2015)		<ul><li>(d) it is translocated in the for</li></ul>	
	(a) Aluminium chloride (b) Aluminium nitrate	476.	Viruses that infect bacteria are c	
	(c) Aluminium sulphate (d) Potash alum			b) Basidiospores
465.	Total internal reflection cannot take place when light goes			d) Basophils
	from: (SSC Sub. Ins. 2015)		A dispersion indicates	(SSC Sub. Ins. 2016)
	(a) water to glass (b) water to air		(a) the value of standard devi	
	(c) glass to air (d) glass to water		(b) spread of data around cen	tral measure.
466.	Interferons are synthesized in response to		(c) the value of mean	
	(SSC Sub. Ins. 2015)		(d) the value of mode	
	(a) mycoplasma (b) fungi	478.	The principle involved in the al	sorption of water by soil is
	(c) virus (d) bacteria			(SSC Sub. Ins. 2016)
467	The first law of thermodynamics is simply the case of		(a) Suction action (	b) Condensation
407.	(SSC Sub. Ins. 2015)		(c) Capillary action (	d) Principal of absorption
	(a) Charle's law.	479.	Which of the following is prese	nt in maximum amount in
	(b) the law of conservation of energy		acid rain?	(SSC Sub. Ins. 2016)
			(a) HNO <sub>3</sub> (	b) H <sub>2</sub> SO <sub>4</sub>
	(c) the law of heat exchange.			d) HĈl T
160	(d) Newton's law of cooling.	480.	The lethal dose required to kill 5	0% of the lab animals tested
408.	Red rot of sugarcane is caused by (SSC Sub. Ins. 2015)		under standard is referred as	(SSC Sub. Ins. 2016)
	(a) Colletotrichum falcatum		(a) MLD (	b) ID <sub>50</sub>
	(b) Cercospora personata (c) Alternaria alternata		(c) LD <sub>50</sub> (	d) ID
	(d) Phytophthora infestans	481.	Wheat is a	(SSC CGL 2017)
460	A clone is a group of individuals obtained through:			b) Herb
409.	(SSC Sub. Ins. 2015)		- 1800 No. 1 100 No.	d) Tree
		482.	k AT 보고 있다.[2017년 개념] : : 20 [2017] [2017년 년) 교육 보고 12 [2017년 1977년 17일 18 [2017년 1977년 1	
	(a) self pollination (b) micropropagation (c) hybridisation (d) cross pollination		category of animals?	(SSC CGL 2017)
470	Chemical name of Gammaxene is: (SSC Sub. Ins. 2015)			b) Amphibian
4/0.		1000000		d) Aves
	(a) Aniline (b) Toluene (c) Benzene hexachloride (d) Chloro benzene	483.		
471			Water Tension?	(SSC CGL 2017)
4/1.	The fleshy thalamus is edible in: (SSC Sub. Ins. 2015)		N. F.	b) Pyrometer
	(a) Mango (b) Orange (c) Tomato (d) Apple		- 14 (15 plus 1 m plus 1 m plus 1 m plus 1 m plus 1 m plus 1 m plus 1 m m plus 1 m pl	d) Tensiometer
472		484.	: [[] [[ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	(SSC CGL 2017)
4/2.	A new molecule Heat Shock Protein 90 (HSP90) was		(a) Pascal (	b) Boyle
	discovered in 2014 by the Didier Picard. The new discovery	/	(c) Newton	d) Watt
	could help in effective treatment of	485.	Which one of the following is a	bad Thermal Conductor?
	(SSC Sub. Ins. 2016)	)		(SSC CGL 2017)
	(a) TB (b) AIDS		(a) Aluminium (	b) Copper
	(c) Malaria (d) None of these		(c) Glass	d) Silver
473.	Antigen presenting cells are specialized cells present in al		Rusting is	(SSC CGL 2017)
	of the following, except (SSC Sub. Ins. 2016)	)	(a) Electrolysis	
	(a) Skin (b) Lymph node		(b) Oxidation	
	(c) Kidney (d) Spleen		<ul><li>(c) Redox reaction (Oxidation)</li></ul>	on and Reduction)
			(d) Reduction	

487.	Whi	ch amongst the followin	g is n		500.			passes	s around a corner or a slit
	(-)	A1	(I-)	(SSC CGL 2017)			ue to		(SSC CGL 2017)
	(a)	Aluminium ion	27. 5	Copper iron		(a)	reflection	2000	refraction
100	(c)	Sulphate ion		Zinc ion	mazanar	(c)	diffraction		total internal reflection
400.	WIII	ch of the following is no	t a co		501.	Wha	at is the reason for form	ation o	
	(-)	Valatila annonia annona	1	(SSC CGL 2017)					(SSC CGL 2017)
	(a)	Volatile organic compo Nitrogen Oxide	unas			(a)	Refraction of light		
	(b)	Sulphur dioxide				(b)	Reflection of light		
	(c) (d)	Chlorine oxide				(c)	Total internal reflectio		
180			whiel	of the following part of		(d)			ternal reflection of light
409.		plant?	WIIICI	(SSC CGL 2017)	502.	Whi	ich of the following bon	ds are	
		Fruit	(b)	Leaf					(SSC CGL 2017)
	(c)	Branch	(000)	Roots		(a)	Single bond	(b)	Double bond
490		m helps in transportation	0.76			(c)	Triple bond	(d)	Hydrogen bond
470.	Ayıc	in neips in transportatio	11 O1 V	(SSC CGL 2017)	503.	In th	ne following reaction, fil	l in the	blank.
	(a)	Food	(b)	Water		Acid	d + Base ®	+ Wate	er.
	(c)	Nutrients		Both food and water					(SSC CGL 2017)
491		proposed five kingdom				(a)	Carbon dioxide	(b)	Metal Oxide
7/1.	WIIC	proposed five kingdom	Ciass	(SSC CGL 2017)		(c)	Hydrogen Gas	(d)	Salt
	(a)	Ernst Mayr	(b)	R.H. Whittaker	504.	Bisl		(0.000)	against which of the
	(c)	M.W. Beijerinck		D.I. Ivanovsky			owing?		(SSC CGL 2017)
492		t is the other name of Ga					Cutting of Trees	(b)	
1,72.	***	is the other name or ou		(SSC CGL 2017)			Killing of Animals		Increasing Pollution
	(a)	Law of motion	(b)	Newton's first law	505.		namon is obtained from		
		Newton's second law							(SSC CGL 2017)
493.				est suited for measuring		(a)	Stem	(b)	Bark
		emperature inside metall				(c)	Roots		Fruits
		I Harris Marrier Marrier Anno		(SSC CGL 2017)	506.	400	lin is a kind of		(SSC CGL 2017)
	(a)	Pyrometer	(b)	Thermocouple	100 C 100 C	(a)	hormone		Protein
	(c)	Thermometer	(d)	Thermistor		(c)	enzyme	43.75	vitamin
494.	Whie	ch acid is released when	an A	nt bites?	507.		ch among the following		
				(SSC CGL 2017)		hear	(177) 177)		(SSC CGL 2017)
	(a)	Hydrochloric Acid		Formic Acid		(a)	Aorta	(b)	Pulmonary vein
	(c)	Acetic Acid		Phosphoric Acid		(c)	Pulmonary arteries		Vena Cava
495.	Whi	ch among the following i	s an e		508		-		ower when viewed from
				(SSC CGL 2017)	200.	the t	27.4%		(SSC CGL 2017)
	(a)	Milk of magnesia		Foam			Due to reflection		(SSC CGE 2017)
1213	(c)	Acetic Acid		Phosphoric Acid		200	Due to refraction		
496.	Whie	ch metal is reponsible for	r Itai			2000000	Due to diffraction		
	7 X	224004	<b>a</b> >	(SSC CGL 2017)			Due to total internal re	flection	1
	(a)	Cadmium		Nickel	509		ch colour is formed when		
405	(c)	Chromium		Mercury	507.	*** 1111	ch colour is formed when	ii ittu t	(SSC CGL 2017)
497.	Cattl	e quickly swallow grass a	nd ste			(a)	Light blue	(b)	Yellow
	(-)	\$100000000	(I-)	(SSC CGL 2017)		(a) (c)	White	(d)	Grey
	(a)	rumen	207 30	esophagus	510		t is an endothermic reac		(SSC CGL 2017)
400	(c)	small intestine		salivary glands	510.		Reaction in which heat		The state of the s
498.			es ox	ygen to various parts of		(a)	Reaction in which hea		
		an body?		(SSC CGL 2017)		(p)			
		Red blood cells		White blood cells		(c)		ner hea	t is released nor absorbed
46.5	(c)	Plasma		Nerves		(d)	None of these		
499.			on is p	performed by the kidneys	511.	Whi	ch of the following is an	ore of	
	in the	e human body?		(SSC CGL 2017)					(SSC CGL 2017)
			10 4	D		3332	12019	777.00	
	(a)	Excretion		Respiration		(a)	Galena		Cryollite
		Excretion Digestion	(b) (d)	Respiration Transportation		(a) (c)	Galena Cinnabar		1935

512.	Wh	ich of the following gas v	vas rel	eased during Bhopal gas	524.	Mus	scle fatigue occurs due to	accui	mulation of	
	trag	edy?		(SSC CGL 2017)					(SSC Sub. Ins. 2017)	
	(a)	Methyl isocyanate				(a)	ATP	(b)	ADP	
	(b)	Sodium isothiocyanate	2			(c)	Lactic Acid	(d)	Carbonic Acid	
	(c)	Nitrogen isothiocynate	e		525.	The	e inexhaustible source	of e	nergy of stars is due	
	(d)	Potassium isothiocyna	ite			to_			(SSC Sub. Ins. 2017)	
513.	Wh	ich drug is used as an Ar	nti–Aı	nxiety drug?		(a)	Conversion of hydroge	n to h	elium	
				(SSC CHSL 2017)		(b)	Conversion of helium	o hyd	rogen	
	(a)	Warfarin	(b)	Diazepam		(c)	Decay of radioactive el	ement	ts.	
	(c)	Latanoprost	(d)	Hydralazine		(d)	Excess of oxygne			
514.	Fici	us benghalensis is the sc	ientif	(SSC CHSL 2017)	526.	Wh	ich of the following wav		(SSC Sub. Ins. 2017)	
	(a)	Banyan		Pineapple		(a)	Radio		Infrared	
	(c)	Babul	and the same	Tulsi		(c)	Microwaves		Gamma-rays	
515.	Equ	us burchellii is the scier	ntific 1	name of	527.	Wh	y the clear nights are coo	oler th	an the cloudy nights?	
				(SSC CHSL 2017)					(SSC Sub. Ins. 2017)	
	(a)	Horse	(b)	Zebra		(a)	Conductance	(b)	Condensation	
	(c)	Buffalo	(d)	Ass		(d)	Radiation	(d)	Insulation	
516.	Ato	mic number of which of th	ne foll	owing elements is greater	528.		subatomic particle that	t does	s not have any electric	
	than	that of Copper?		(SSC CHSL 2017)			rge is a/an		(SSC Sub. Ins. 2017)	
	(a)	Iron	(b)	Chromium		(a)	Electron	(b)	Proton	
	(c)	Zinc	(d)	Manganese			Neutron		All options are correct	
17.	Whi	ch of the following is fa	lse wi	th reference to a photo-	529.	529. Which of the following gas is used in bulb?				
	volta	nic cell?		(SSC CHSL 2017)					(SSC Sub. Ins. 2017)	
	(a)	It is another name as so	lar ce	11		(a)	Hydrogen	(b)	Carbon-dioxide	
	(b)	It can be used as infra-	red de	etectors		(d)	Carbon-mono-oxide	(d)	Argon	
	(c)	It can store light energy	in the	form of electrical energy	530.	Chlo	orine gas is a major compo	nent o	f which of the following:	
	(d)	It converts electric ener							(SSC Sub. Ins. 2017)	
18.		hane an air pollutant is p	V 10 00 00 00 00 00 00 00 00 00 00 00 00	(TA)		(a)	Water	(b)	Tear gas	
				(SSC CHSL 2017)		(c)	Liquified petroleum Gas	27.00		
	(a)	by action of ultravi	olet	light on nitrogenous	531		at is Brine solution?	, (d)	(SSC Sub. Ins. 2017)	
	80.70	compounds.			551.	(a)	Excess salt + water	(b)	Silver	
	(b)		nanuf	facturing ammoniacal						
		fertilizers		9	522	25.00	ich of the following prima	300		
	(c)	by burning of coal in in	suffic	ient air	332.	VV III	ich of the following prima	ii iiy C		
	(d)	by digestion of food by					CIET	4.5	(SSC Sub. Ins. 2017)	
19.		of work done is				(a)	The state of the s		Automobile Battery	
	(a)	Energy		Power		(c)	polymer		Diesel Engine	
	(c)			Impulse	533.	Wha	at was the main aim of M		^^^	
20.				cal quantity, "Young's					(SSC Sub. Ins. 2017)	
		ulus"?		(SSC CHSL 2017)		(a)	Protection of Ozone lay			
	(a)	newton	(b)	erg		(b)	Bio- diversity Conserva	tion		
	(c)	joule	10000000	pascal		(c)	Global Warming			
521.		ere is bile stored?	1-1	(SSC Sub. Ins. 2017)		(d)	Climate Change			
	(a)	Liver	(b)	Kidney	534.	Sup	ersonic jets cause thinnir	g of v	vhich layer?	
	(c)	Gall bladder		Spleen					(SSC Sub. Ins. 2017)	
22.		ch of the following is no		- T		(a)	O2 layer	(b)	O <sub>3</sub> layer	
<del></del>	10 m ( 10 m ) 10 m ( 10 m ) 10			(SSC Sub. Ins. 2017)		(c)	CO <sub>2</sub> layer	(d)	2.2	
	(a)	Adipose Tissue	(b)	Compact Bone	535.		gas is formed through:	(-)	(SSC MTS 2017)	
	(c)	Cardiac Muscle		Areolar Tissue	000.	(a)	Fermentation	(b)	Reduction	
523			570.50	in heart beats in a minute?			Aerobic respiration	1.00	Oxidation	
<b>200</b>	1 1011	non many annes are		(SSC Sub. Ins. 2017)	526	(c)	and an institution of the first of the second secon			
	(a)	82	(b)		536.		w and uniform cooling o	ı not		
			(d)			(77.617%)	wn as :	(1.)	(SSC MTS 2017)	
	(c)	72	(u)	o.		(a)	chilling		annealing	
						(c)	quenching	(d)	tempering	

537.		e context of alternative s le bio - fuel can be obtain		es of energy, ethanol as a om: (SSC MTS 2017)	549.			(	ryogenic engines are used? SSC Stenographer 2017)
	(a)	Potato	(b)	Wheat			In rocket technology		
	(c)	Sugarcane	(d)	Rice			To run the navy ship		
538.	Dist	ant objects can be seen v	vith t	he help of?			In frost free referigera		
				(SSC MTS 2017)	550		All options are correction and attack the		marria aguirantad into reliab
	(a)	spectroscope	(b)	telescope	550.		the following?		rgy is converted into which SSC Stenographer 2017)
	(c)	microscope	(d)	cronometer			Mechanical energy		Chemical energy
539.	Two	gaseous molecules can re	act o	nly when they have same			Heat energy		Radiation energy
		*		(SSC MTS 2017)	551.		at is the reason of surf		
	(a)	energy	(b)	entropy					SSC Stenographer 2017)
	(c)	Free energy	(d)	orientation/steric factor		(a)	Electrical force betw	277	
540.	Brov	wn ring test is used for th	e det	ection of .		(b)	Cohesive force betw	een m	nolecules
				(SSC MTS 2017)		(c)	Adhesive force betw		
	(a)	sulphate	(b)	chlorate		(d)	Gravitational force b		
	(c)	phosphate		nitrate	552.	In v	which process there is a		
541.		element involved with bl	0.00				D		SSC Stenographer 2017)
60.000				(SSC MTS 2017)			Decomposition Oxidation		Reduction Modification
	(a)	Iron	(b)	Phosphorus	553		der is an alloy made of	0.76	
	(c)	Sodium		Calcium	333.	3010	der is an arroy made or		SSC Stenographer 2017)
		0.000,000,000,000,000,000,000				()	7' 11 1		
542.	Whi	ch type of function does the	ne an	E 107: 0		(a)			Zinc and copper
				(SSC MTS 2017)	554		Tin and zinc		Tin and lead owing gases leads to global
	(a)	Logical functions		Arithmeetic functions	334.		ming?		SSC Stenographer 2017)
	(c)	Control functions	200	Relational functions			Oxygen		Carbon dioxide
543.	The	largest part of our brain i	s:	(SSC MTS 2017)			Sulphur dioxide		Ozone
	(a)	Hypothalamus	(b)	Medulla oblongata	555.		it is the popular name		
	(c)	Cerebellum	(d)	Cerebrum			• •		(SSC CGL 2018)
544.	Insul	lin activates in				(a)	Vitamin A	(b)	Vitamin B 12
			(S	SC Stenographer 2017)			Vitamin K		Vitamin C
	(a)	Pancreas	(b)	Parathyroid	556.	The	explosion of crackers i	s an e	
	(c)	Thymus	(d)	Pituitary				4.	(SSC CGL 2018)
545.	Whi	ch among the following				900	Combustion		Precipitation
	comp	olex group?	(SS	C Stenographer 2017)	557		Decomposition ch of the following is a		Evaporation
	(a)	Riboflavin	(b)	Thaimin	337.	WIII	ch of the following is a	i vesti	(SSC CGL 2018)
	(c)	Ascorbic acid	(d)	Folic acid		(a)	Heart	(b)	Kidney
546.	Viru	ses are usually made of w	hich	of the following?			Lungs	5.75.55.5	Appendix
			(SS	C Stenographer 2017)	558.		it is the dominant chen		
	(a)	Protein + Carbohydrate	s						(SSC CGL 2018)
	(b)	Protein + Nucleic acid				(a)	Malic acid	(b)	Formic acid
	(c)	Protein + Ascorbic Acid					Sulphuric acid		Ethanoic acid
	(d)	Protein + Lipid			559.	In v	which part of the body	is blo	
547.	"Shr	ubs" are woody plants	gener	rally smaller and more			2 11	724	(SSC CGL 2018)
	com	pact than trees. Which o	f the	following is not a shrub			Bone Marrow	0.00	Lungs
	tree'	?	(SS	C Stenographer 2017)	5.00	0.000	Brain	0.000	Heart
	(a)	Sunflower	(b)	Rose-of-Sharon	560.				ontrols the maintenance of
	(c)	Butterfly Bush	(d)	Barberry			ture,balance and equili Diencephalon		n. (SSC CGL 2018) Brainstem
548.	Am	edical procedure, during	which	h a small sample of tissue			Cerebrum		Cerebellum
	is re	moved from a part of the	body	y, is	561		nd turbines convert	(u)	energy into mechanical
			(SS	C Stenographer 2017)		pow	. H.M M M M M M		(SSC CGL 2018)
	(a)	MRI	200	CT Scan			chemical	(b)	nuclear
	(c)	Biopsy	(d)	All options are correct.		(c)	gravitational	(d)	kinetic

562.			es (F	IYVs) of wheat were first		(a)	digestive system		respiratory system
		eloped in	3000	(SSC CHSL 2018)	571	(c)	reproductive system		
		Australia		Mexico	3/4.	(a)	Tyndal Effect is due		(SSC Sub. Ins. 2018) Dispersion of Light
		USA	411	Japan		(c)			Reflection of Light
563.	Wh	ich of the following fu	els h	as calorific value equal to	575				ructural and functional unit
	petr	ol?		(SSC CHSL 2018)	575.		idneys?		(SSC Stenographer 2018)
	(a)	Methane	(b)	Kerosene			Nephron		Pits
	(c)	CNG	(d)	LPG		(c)	Nutrofil	100	Tentacle
564.	In v	which of the followin	g or	gans of human body are	576.	Wh	at is the frequency ra	nge o	f audible waves?
		oohydrates stored as gl				(a)	20 Hz-20000 Hz	(b)	21000-24000 Hz
	(a)	Stomach	(b)	Liver		(c)	25000-30000 Hz		31000-40000 Hz
		Small intestine	( )		577.				object comes in
565				tive Towards Affordable			path of light.		(SSC Stenographer 2018)
505.				, is being promoted					Transparent
	asa	n alternative transport f	iiel	(SSC CHSL 2018)			Luminous		Translucent
				compressed biogas	578.				ises (carbon monoxide and
		LPG							gases (nitrogen and carbon
=//							Laser Star Gas		? (SSC Stenographer 2018)
566.	wn	ich of the following is N	OI			(c)	Producer Gas	(d)	Laughing Gas
				(SSC CHSL 2018)	579	Hyo	rometer is a device w	hich i	s used to measure
	(a)	Mitral	(p)	Aortic	515.	1175	rometer is a device w	men i	(CCC Ctanagement of 2010)
	(c)	Tricuspid	(d)	Septum		(0)	Townson		(SSC Stenographer 2018)
567.		are called suicidal	bags	of the cell.		(a)	Temperature Relative humidity		Fragrance Pressure
				(SSC Sub. Ins. 2018)	580	(c)			less than 20 Hz are called
	(a)	Ribosomes	(b)	Lysosomes	500.	Sou	waves.		SSC Stenographer 2018)
	(c)	Golgi Apparatus	(d)	Mitochondria		(a)	Intelligent		Inferior
568.	Wh	ich of the following is	the	universal recipient blood		(c)	Infrasonic		Instrumental
	gro	up?		(SSC Sub. Ins. 2018)	581.	1.			e even through the vacuum,
	(a)	0	(b)	A			called .		SSC Stenographer 2018)
		AB	(d)			(a)	Mechanical waves		
569.			act a	s catalysts within the living		(c)	Inverted waves		Electromagnetic waves
	cell	(C.)		(SSC Sub. Ins. 2018)	582.				ch deals with the various
		proteins		carbohydrates					ionship between organisms
570		vitamins		calcium					SSC Stenographer 2018)
5/0.			mak	te the coils used in water					Ecology
	120	ters?		(SSC Sub. Ins. 2018)	502		Entomology ich is the respiratory of		
	(a) (b)	A mixture of aluminiu A mixture of iron and			303.	VV III	ich is the respiratory (		(SSC Stenographer 2018)
	(c)	Nichrome	Steel			(a)	Ears		Gills
	(d)	Copper				(c)	Skin	150 1555 (8)	Lungs
571			the	scientists from National	584.		ich pigment gives pale		
5,11				gested measuring levels of			1 8 3 1		(SSC Stenographer 2018)
				ned to glucose molecules in		(a)	Erithromycin		Amoxylin
		blood as a diagnostic t				(c)	Urochronie	(d)	Unicom
				(SSC Sub. Ins. 2018)	585.	Whic	ch of these bones is N	OT a	part of the human ear?
	(a)	Diabetes	(b)	Thyroid					(SSC CGL 2019-20)
				Tuberculosis		(a)	Incus		Stapes
572.	In hu	ımans, fertilisation usua	illyta	ikes place in the		(c)	Femur		Malleus
			1550	(SSC Sub. Ins. 2018)	586.				the leading lady in the film
	0.30 ( 0.30 )	Uterus	1.71.1.61	Fallopian tube					rs? (SSC CGL 2019-20)
	(c)			Vagina		(a)	Deepika Padukone	(b)	Vidya Balan
	The		n bo	dy controls every activity		(c)	Kajol	(d)	Kareena Kapoor
	that	you perform.		(SSC Sub. Ins. 2018)		(-)		(-)	voia rapoor

587.	What is the more common name for solid carbon dioxide?  (a) Potash  (b) Quick Silver (SSC CGL 2019-20)	600.	at 2:	at is the approximat 5°C (77°F)? 1598 m/s		eed of sound in distilled water (SSC CHSL 2019-20) 1284 m/s
588	(c) Epsom (d) Dry Ice From India, who inaugurated the Kartarpar Corridor and					3980 m/s
366.	flagged off the first set of pilgrims to the final resting place of	601				n an umbilical cord?
	Sikhism founder Guru Nanak Dev? (SSC CGL 2019-20)	001.	1100	many arteries are th	ici c i	(SSC CGL 2020-21)
	(a) Manmohan Singh (b) Narendra Modi		(0)	Three (b) Four	(0)	
	(c) Ram Nath Kovind (d) Amarinder Singh	(0)		THE RESIDENCE TO SECURE THE PROPERTY OF THE PARTY OF THE		AND 1988
589.	Red worms have a structure named which helps them in grinding their food. (SSC CGL 2019-20)	002.				ed by the time period is equal to: (SSC CGL 2020-21)
	(a) Intestine (b) Crop			Phase difference	5700000	frequency
	(c) Esophagus (d) Gizzard			wave velocity	CONTRACTOR OF THE PARTY OF THE	amplitude
590.	Which of these words refers to the scientific study of	603.			reme	ents of an autotrophic organism
	domestic dogs ? (SSC CGL 2019-20)			fulfiled by		(SSC CGL 2020-21)
	(a) Cynology (b) Craniology			locomotion	671 535	photosynthesis
	(c) Carpology (d) Chrematistics			respiration	100	glycogenation
591.	Name the physicist who is credited with the discovery of the	604.				(SSC CGL 2020-21)
	Neutron. This 1932 discovery led to his winning the Nobel			Coal		Cellulose
	Prize. (SSC CGL 2019-20)			Oil	(d)	Petrochemicals
	(a) Max Plank (b) J. S. Fleming	605.				ade up of white blood cells that
	(c) Enrico Fermi (d) James Chadwick		attac	k harmfulin	the l	olood. (SSC CGL 2020-21)
592.	Silver Fiber Revolution is associated to:		(a)	Viruses	(b)	Bacteria
	(SSC MTS 2019-20)		(c)	Fungi	(d)	Protozoa
	(a) Leather (b) Oil seeds	606				ses is released in the process of
	(c) Jute (d) Cotton	000		otosynthesis?	5 5	(SSC CHSL 2020-21)
593	The upper part of the respiratory tract is provided with small			Nitrous dioxide		(b) Oxygen
	hair-like strucutres called .		(c)	Nitrogen		(d) Carbon dioxide
	(SSC MTS 2019-20)	607.	137	_	fact	ors is NOT responsible for soil
	(a) bronchi (b) cilia			mation?		(SSC CHSL 2020-21)
	(c) villi (d) alveoli		(a)	Parent material		(b) Cattle grazing
504	Which of the following gas causes explosion in coal mines?		(c)	Biotic agents		(d) Topography
374.	(SSC MTS 2019-20)	608.			iness	are caused by the dificiency of
	(a) Carbon dioxide (b) Nitrogen		2 5242	and, respe		
	(c) Butane (d) Methane		(a)	Vitamin D, Vitamin		(b) Vitamin D, Vitamin C
505	Who is known as the father of Blue Revolution in India?		(c)	Vitamin E, Vitamin	Α	(d) Vitamin B1, Vitamin C
393.	(SSC MTS 2019-20)	609.	. Sw	ollen bluish veins re	esult	ing from the valves that do not
	(a) Verghese Kurien (b) Sam Pitroda					. (SSC CHSL 2020-21)
	(c) Hiralal Chaudhari (d) M.S. Swaminathan		(a)	Varicose Veins		(b) Superficial Veins
506	and the contraction of the contract of the con		(c)	Systemic Veins		(d) Deep Veins
596.	is the study of ancient plants, like mosses, that	610	W	hich of the followi	no i	s the name of the spacecraft
	grow in moist, humid environments.					NASA's manned mission to
	(SSC MTS 2019-20)					? (SSC Multitasking 2020-21)
	(a) Ethonobotany (b) Bryology			Crew Centaurus		
	(c) Palynology (d) Dendrology		(b)	Crew Aries		
597.	Which country is to train Indian flight surgeons to enable		(c)	Crew Shark		
	them to monitor the health of astronauts selected for the			Crew Dragon		
	human space mission Gaganyaan? (SSC CHSL 2019-20)	611	. W	hich of the following	isth	e name of the NASA programme
	(a) Russia (b) USA		to	land first woman an	d ne	xt man on the Moon by 2024?
	(c) China (d) France					(SSC MTS 2020-21)
598	Which of the following divisions of plants does NOT have			) Orion		(b) Nike
	a well differentiated body? (SSC CHSL 2019-20)	12200		) Apollo	gunn	(d) Artemis
	(a) Gymnosperms (b) Bryophyta	612				months may the meteor shower
	(c) Thallophyta (d) Pteridophyta				trom	Earth? (SSC MTS 2020-21)
599.	What is the symbol of Tin? (SSC CHSL 2019-20)			February		(b) April
	(a) Ti (b) Si		(c	) June		(d) August
	(c) Ta (d) Sn					

613.	Which of the following diseases is caused by a protozoa parasite of Leishmania species? (SSC MTS 2020-21)		is the study of the distribution and determinants of health-related states or events in specified populations,							
	(a) Malaria (b) Kal		and the application of this study to the control of health							
			proble		icatioi	i oi uns			rapher 2020	
614	The speed of light in vacuum is:			pidemi	iology			Ontology		<i>j-21)</i>
014.				aurolo				Haemato		
						nalana a			ompared w	ith o
(15			cricket ball, then the radius of the atom is approximately							
015.	Which of the following members of		equal to how many kilometres? (SSC Sub-Inspector 2020-21)							
		Stenographer 2020-21)	/ \ A	_						1-21)
	(a) Amphibians		(a) 0.		(b) 0			0.05	(d) 5	
	(b) Reptiles (except crocodiles)		The difference in temperature between two bodies is 30							
	(c) Fishes		degree centigrade. What is the difference in degree							
	(d) Birds		Fahrer	nheit?			(SS	C Sub-Ins	pector 2020	)-21)
	In terms of their magnetic propertie	es, the elements named	(a) 64	4	(b) 5	54	(c)	86	(d) 72	
	nickel and cobalt are classified as:	625.	'Femt	to' mea	ans ten	raised t	o the	e power of		
		tenographer 2020-21)					(SSC	Sub-Ins	pector 2020	)-21)
		ti-ferromagentic	(a) -	16	(c) -			-20	(d) - 12	
		amagnetic 626.	Which	h one	S				sures the s	ame
617.	Nitrate esters are used in making									dine
	(SSC St	tenographer 2020-21)	quantity as that is measured by the SI unit 'pascal'? (SSC Sub-Inspector 2020-21)							
	(a) pesticides (b) ma	nure	(a) w	vatt	(b) to			newton	(d) joule	-1)
	(c) explosives (d) so				(4)				(a) Journ	Con ver
618	What is the unit of energy in the In		In the Millikan's Oil Drop experiment, the oil drop is							
010.		Stenographer 2020-21)	subjected to such forces whose nature does NOT fall under							
	(a) Fahrenhiet (b) Ce								spector 202	0-21)
	(c) Kelvin (d) Jou		(a) v	iscous	3			gravitatio		
610	Which of the following is measure	e in its S-derived unit	1	electros				magneto		
01).		Stenographer 2020-21) 628.	Polio is caused by which of the following organisms?							
	(a) Magnetic flux density (b) Lu						(SS	C Sub-Ins	pector 202	0-21)
		aminance	(a) P	rotozo	a		(b)	Bacteria		
620	Which among the following produ		(c) F	ungi			(d)	Virus		
020.					Atomic	Number	roft	he elemen	t Einsteiniu	ım?
		stenographer 2020-21)	(SSC Sub-Inspector 2020-21)							
	(a) Lungs (b) Sto		(a) 9	08	(b)			99	(d) 100	·/
(21	(c) Kidney (d) Liv	CO.0	1							
621.	Which among the following	is classifica anaci	Conjunctivitis is an infection primarily related to (SSC Sub-Inspector 2020-21)							
		Stenographer 2020-21)	(-) C	1	1.				pector 202	0-21)
	(a) Pinus (b) Ch			Stomach	11		1	Heart		
	(c) Funaria (d) Ulv	va	(c) E	Eye			(a)	Knee		

14 General Science

## **HINTS & EXPLANATIONS**

- (b) A concave lens is also known as a "biconcave lens" because of two spherical surfaces bulging inwards. A Concave lens always forms an image which is virtual and erect. Concave lenses are used as a correction for myopia or short nearsightedness because it converges the light rays passing through it. It is also used in binoculars and some telescopes.
- (a) Vitamin B-12, also called cobalamin, is a water-soluble vitamin that has a key role in the normal functioning of the brain and nervous system, and the formation of red blood cells.
- (d) Chloropicrin is a chemical compound currently used as a broad-spectrum antimicrobial, fungicide, herbicide, insecticide, and nematicide. Chloropicrin is harmful to humans. It can be absorbed systemically through inhalation, ingestion, and the skin. At high concentrations it is severely irritating to the lungs, eyes, and skin.
- (c) Modulus of rigidity is defined as the ratio of shear stress to the shear strain: where shear stress is the force which acts is the area on which the force acts is shear strain. The SI unit of Modulus of Rigidity is pascal (pa).
- (a) Air at atmospheric pressure is a nearly ideal gas, and sound transmission in air is close to adiabatic for normal frequencies and transmission distances. The total internal energy of the gas through which sound travels remains same.
- 6. (b) Caesium is a chemical element. It is a soft, silvery-golden alkali metal with a melting point of 28.5 °C (83.3 °F), which makes it one of only five elemental metals that are liquid at or near room temperature. It is used as a getter, a material that combines with and removes trace gases from vacuum tubes. It is also used in atomic clocks, in photoelectric cells and as a catalyst in the hydrogenation of certain organic compounds.
- 7. (a) The plasma membrane is composed of a phospholipid bilayer. Phospholipids are lipids with a phosphate group attached to them. The phospholipids have one head and two tails. The head is polar and hydrophilic, or water-loving. The tails are nonpolar and hydrophobic.
- (b) Mitochondria are called the powerhouse of a cell because they produce energy for the functioning of a cell. Energy is produced by the oxidation of food by the process of respiration.
- (b) Vinegar is a liquid that is produced from the fermentation of ethanol into acetic acid. Vinegar consists of acetic acid (CH<sub>3</sub>COOH), water and trace amounts of other chemicals, which may include flavorings.

- (a) Boiling point of heavy water is higher than that of ordinary water.
- (a) Respiration is the process in which organisms exchange gases between their body cells and the environment. From prokaryotic bacteria and archaeans to eukaryotic protists, fungi, plants, and animals, all living organisms undergo respiration.
- 12. (a) Arboreal animals are creature who spend the majority of their lives in trees. They eat, sleep and play in the tree canopy. There are thousands of species that live in trees, including monkeys, koalas, possums, sloths, various rodents, parrots, chameleons, geckos, tree snakes and a variety of insects.
- (d) In input frequency of a full wave rectifier be n, then the output frequency would be 2n.
- (d) Advection is the transfer of heat or matter by the flow of a fluid, especially horizontally in the atmosphere or the sea
- 15. (d) The decibel (dB) is the unit used to measure the intensity of a sound or noise. It is a logarithmic expression of the ratio between two signal power, voltage, or current levels. Decibels (dB) are defined in terms of power per unit surface area on a scale from the threshold of human hearing, 0 dB, upward towards the threshold of pain, about 120-140 dB.
- 16. (d) Bats are good at flying at night because they use sound rather than sight to navigate. Bats send pulses of sound through their mouths or noses, and these pulses echo back outlining the objects in the bats flight path. The ears of a bat are large and oddly constructed but they help it to determine where the echoes are coming from.
- 17. (c) No change will happen.
- 18. (b) Cartography, the art and science of graphically representing a geographical area, usually on a flat surface such as a map or chart. It may involve the superimposition of political, cultural, or other non geographical divisions for the representation of a geographical area.
- 19. (c) A silver halide is one of the chemical compounds that can form between the element silver and one of the halogens. Silver halides are light-sensitive chemicals, and are commonly used in photographic film and paper.
- 20. (d) An antiknock agent is a gasoline additive used to reduce engine knocking and increase the fuel's octane rating by raising the temperature and pressure at which auto ignition occurs.
  - The typical antiknock agents in use is Tetraelhyllead.

- 21. (b) Curie temperature (TC), or Curie point, is the temperature above which certain materials lose their permanent magnetic properties, which can (in most cases) be replaced by induced magnetism. The Curie temperature is named after Pierre Curie, who showed that magnetism was lost at a critical temperature.
- 22. (a) The isotope used for the production of atomic energy is Uranium-235 (U-235). U-235 is an isotope of uranium making up about 0.72% of natural uranium. Uranium occurs in most rocks in concentrations of 2 to 4 parts per million and is as common in the Earth's crust as tin, tungsten and molybdenum. Uranium occurs in seawater, and can be recovered from the oceans. It was discovered in 1935 by Arthur Jeffrey Dempster
- 23. (a) The equatorial bulge and the effects of the surface centrifugal force due to rotation results in lower acceleration due to gravity at Equator than that at the poles.
- (d) A nucleon of an atom consists of either a proton or a neutron. Positrons are not present in a normal atom and are only produced during radioactive decay.
- 25. (a) Graphite is a crystalline form of the element carbon with its atoms arranged in a hexagonal structure. It occurs naturally in this form and is the most stable form of carbon under standard conditions. It is a native element mineral found in metamorphic and igneous rocks. It is used in the manufacture of lead pencil.
- 26. (a) Angle of friction and angle of repose are equal to each other. Angle made by the resultant of normal reaction and limiting frictional force with the normal reaction is called angle of friction. The minimum angle of the plane at which the body kept on it starts to slide due to its own weight is called angle of repose.
- 27. (c) If a patient receives a blood type that is incompatible, antibodies that the patient already has in his or her blood will attack the donor red blood cells and destroy them. This could cause fever, chills, chest or back pain, bleeding, increased heart rate, shortness of breath, rapid drop in blood pressure, and/or kidney damage.
- (b) Bullets fired from gun contain lead which when not removed from the body of an injured body may cause toxic effect.
- (d) Ringworm is a contagious fungal infection caused by mold-like parasites that live on the cells in the outer layer of your skin. It can be spread in the following ways: Human to human.
- 30. (b) The pituitary gland is a part of endocrine system. Its main function is to secrete hormones into bloodstream. These hormones can affect other organs and glands, especially: thyroid. It is a protrusion off the bottom of the hypothalamus at the base of the brain. The pituitary gland is very important as it takes messages from the brain (via a gland called the hypothalamus) and uses these messages to produce hormones that affect many parts of the body, including stimulating all the other hormone-producing glands to produce their own hormones.

- (b) Salivary gland contains an enzyme called ptyalin which breaks down starch into simpler sugars such as maltose and dextrin that can be further broken down in the small intestine.
- 32. (c) The femur is the proximal bone of the hindlimb in tetrapod vertebrates. the femur serves an important weight-bearing function and is an essential component of the lower kinetic chain. The robust shape of the femur provides many sturdy attachment points for the powerful muscles of the hip and knee that contribute to walking and other propulsive movements.
- 33. (d) The time period of a pendulum is inversely proportional to gravity. The gravity of the Moon is six times less than that of the Earth, hence the time period of a pendulum on the Moon is more than that on the Earth.
- (b) The function of ball bearings in a wheel is to convert kinetic friction into rolling friction.
- 35. (c) shock absorbers are hydraulic (oil) pump like devices that help to control the impact and rebound movement of your vehicle's springs and suspension. Along with smoothening out bumps and vibrations, the key role of the shock absorber is to ensure that the vehicle's tyres remain in contact with the road surface at all times.
- 36. (d) Propellant is the chemical mixture burned to produce thrust in rockets and consists of a fuel and an oxidizer. An oxidizer is an agent that releases oxygen for combination with a fuel. In combination with an oxidizer such as liquid oxygen, liquid hydrogen yields the highest specific impulse, or efficiency in relation to the amount of propellant consumed, of any known rocket propellant.
- 37. (c) Gypsum is a naturally occurring mineral mined from deposits formed by ancient seabeds as a raw material. Composed of calcium sulfate and water, it is used for a variety of manufacturing, industrial, and agricultural uses. Portland cement produced by heating limestone and clay minerals in a kiln to form clinker, grinding the clinker, and adding 2 to 3 percent of gypsum. The addition of gypsum to Portland cement helps in preventing rapid setting of cement.
- 38. (b) The most common use for asbestos is as a cement additive. By adding asbestos to a mixture of cement, the tensile strength of a sheet of cement would be increased 10 fold. Workers working in the cement industry are exposed to asbestos, getting infected with white lung disease.
- (c) Iodoform is the organoiodine compound with the formula CHI<sub>3</sub>. A chemical reaction in which a methyl ketone is oxidized to a carboxylate by reaction with aqueous HO<sup>-</sup> and I<sub>2</sub>. The reaction also produces iodoform (CHI<sub>3</sub>). Iodoform is used as an antiseptic.
- 40. (d) An artificial ecosystem is represented by aquarium. An aquarium is a vivarium of any size having at least one transparent side in which aquatic plants or animals are kept and displayed.

- (d) Lead in automobile exhaust is carcinogenic to humans causing lung cancer.
- (a) The optimum dissolved oxygen level (in mg/litre) required for survival of aquatic organisms is 4-6.
- (a) Keibul Lamjao National Park in the Bishnupur district of Manipur is the only floating park in the world.
- 44. (c) Edward Jenner is well known around the world for his innovative contribution to immunization and the ultimate eradication of "Small Pox" (1796). Jenner is often called "the father of immunology", and his work is said to have "saved more lives than the work of any other human".
- 45. (c) seed is associated with Cotton. BT is a family of proteins originating from strains of the bacterium Bacillus thuringiensis. There are more than 200 different types of BT toxins, each affecting different types of insects.
- 46. (c) Monazite is a primary ore of several rare earth metals most notably thorium, cerium and lanthanum. Thorium is a highly radioactive metal and could be used as a replacement for uranium in nuclear power generation. Monazite sand deposits are inevitably of the monazite-(Ce) composition.
- 47. (c) In coriander, the useful parts are leaves and dried fruits. Coriander is an annual herb in the family Apiaceae. It is also known as Chinese parsley, and in North America the stems and leaves are usually called cilantro.
- (a) Amla is called Herbal Indian Doctor because it is used to cure many ailments naturally.
- (d) Blood is normally slightly basic, with a normal pH range of 7.35 to 7.45. Usually the body maintains the pH of blood close to 7.40.
- 50. (a) Endocrine glands are tissues or organs that excrete chemical substances (hormones) directly into the blood. Common endocrine glands are the hypothalamus, pineal, and adrenal glands. The thyroid gland is found in your throat, just below the jaw. This gland secretes a number of hormones that act on your metabolism. It is the largest endocrine gland in the body.
- 51. (b) Whale is the largest mammal.
- 52. (c) The second incisors of the elephant are modified into the huge tusks of an elephant. Tusks are used for defense, offense, digging, lifting objects, gathering food, and stripping bark to eat from trees. They also protect the sensitive trunk, which is tucked between them when the elephant charges.
- 53. (d) An optical fiber is a thin fiber of glass or plastic that can carry light from one end to the other. The study of optical fibers is called fiber optics. Optical fibers are based on the phenomenon of total internal reflection.
- 54. (a) The yellow lamps as street lights use low-pressure sodium-vapour lamps which emits monochromatic yellow light. The sodium-vapour lamp is a gasdischarge lamp that uses sodium in an excited state to produce light at a particular wavelength.

- 55. (c) Mirage formation is a result of the refraction and the total internal reflection of light in the air. Mirages happen when the ground is very hot and the air is cool. The hot ground warms a layer of air just above the ground. A layer of very warm air near the ground refracts the light from the sky nearly into a U-shaped bend. Our brain thinks the light has travelled in a straight line.
- 56. (d) Due to scattering of light the sky appears blue. The Blue light due to its shorter wavelength is scattered more than other colors and hence sky appears blue.
- 57. (b) Flint glass is generally used for making lenses and prisms. It is highly refractive lead-containing glass and absorbs most ultraviolet light but comparatively little visible light.
- (a) Vulcanization is a chemical process for converting natural rubber or related polymers into more durable materials by the addition of sulfur.
- (c) The addition of borax to the pyrex glass resulting in providing extra strength. It provides the glass extra resistance to prevent breakage under heating or cooling.
- (d) Radon emits radiation which kills cancerous cells. Although radon is not as widely used for the treatment of cancer now a days.
- (c) This process usually occurs in the upper third part of the fallopian tube of the woman.
- (d) Cirrhosis is a condition in which the liver does not function properly due to long-term damage. Cirrhosis is most commonly caused by alcohol, hepatitis B, hepatitis C, and non-alcoholic fatty liver disease.
- 63. (c) The food webs we see are grazing food chains since at their base are producers which the herbivores graze on
- 64. (d) Weight of 1 mole of water (H<sub>2</sub>O) = 18 gm Therefore, weight of 10 moles of water = 180 gm
- 65. (a) Carrot is rich in Vitamin A and it improves eyesight.
- 66. (d) The reason for this is the hydrogen bonding between neighboring water molecules. Because hydrogen bonding is a relatively strong intermolecular force, high heat energy is required to break up the force.
- 67. (a) Valence electrons are important in determining how an elements reacts chemically with other elements. Since the valence electrons are the electrons in the highest energy level, they are the most exposed of all the electrons, so they are the electrons that get most involved in chemical reactions.
- 68. (c) The lumen is the SI derived unit of luminous flux, a measure of the total "amount" of visible light emitted by a source.
- 69. (d) A dissipative force counteracts motion. Its direction is opposite to the direction of the velocity vector. Dynamic friction is a dissipative (non-conservative) force. it dissipates energy (mainly through heat and sound), and energy lost by moving in one direction.

- (c) As the length increases and the cross sectional area decreases, the electrical resistance of the wire also rises.
- 71. (b) Consequent Poles are magnetic poles that exist where the specimen has been successively magnetized in different sections to create more than two poles e.g., two north poles with one south pole between them.
- (b) Fructose, or fruit sugar, is one of the three dietary monosaccharide, along with glucose and galactose, which is absorbed directly into the bloodstream during digestion.
- 73. (c) Methylated spirit contains mostly ethanol. Methylated spirit is a mixture of ethyl alcohol (95%) and methyl alcohol (5%). Methyl alcohol is poisonous and is added to prevent the methylated spirit being used as cheap drinking alcohol.
- 74. (c) A sporozoite is the cell form that infects new hosts. In plasmodium, for instance, the sporozoites are cells that develop in the mosquito's salivary glands, leave the mosquito during a blood meal, and enter liver cells (hepatocytes) where they multiply.
- 75. (c) Ex-situ conservation is the process of protecting an endangered species of plant or animal outside of its natural habitat. Zoos and botanical gardens are the most conventional methods of ex-situ conservation. Endangered plants may also be preserved in part through seed banks or germplasm banks.
- 76. (b) Diatom ooze (formed from microscopic unicellular algae having cell walls consisting of or resembling silica) is the most widespread deposit in the high southern latitudes.
- 77. (b) Photosynthetic Chromatophores vesicles found in some purple bacteria constitute one of the simplest light-harvesting systems in nature.
- 78. (a) Convex mirrors reflect light outwards; therefore they are not used to focus light. So, the convex mirror has a wide field of view and hence is used as rear view mirror as it gives a clear diminished and an erect image of the vehicle that is behind.
- (b) The principal components of pyroligneous acid are acetic acid, acetone and methanol. It was once used as a commercial source for acetic acid.
- (c) UCIL produce batteries, carbon products, welding equipment, plastics, industrial chemicals, pesticides, and marine products.
- (a) Most drying oils owe their drying properties to the presence of a large percentage of linolenic acid (which derives its name from "linseed"), which is highly unsaturated.
- 82. (a) Carotenoids are tetraterpenoid organic pigments that are naturally occurring in the chloroplasts and chromoplasts of plants and some other photosynthetic organism like algae, some bacteria, and some types of fungus.
- (b) Close to the surface of the Sun, the light it emits is not in parallel beams at all. It sends photons out in pretty much every direction at random. But the Sun is far

- away from Earth. Most of those photons don't reach the Earth because they're heading in the wrong direction. Only those photons that happen to be heading toward the Earth actually get there - and the photons that are heading to the Earth are all heading in more or less the same direction. So the photons that actually reach the Earth are all travelling in more or less parallel directions.
- 84. (a) Polar bears, which pile on fat to survive hibernation and yet do not become diabetic, hold clues for treating Type II diabetes, a disease associated with obesity that afflicts more than 190 million people worlwide, reaching epidemic proportions in many countries.
- (d) All electromagnetic waves regardless of their wavelengths, including all colors of light, have the identical speed in a vacuum.
- 86. (b) In hydroelectric power plants the potential energy of water is utilized to produce electricity. The height of water in the reservoir decides how much potential energy water possesses.
- 87. (c) In people with emphysema, the lung tissue involved in exchange of gases (oxygen and carbon dioxide) is impaired or destroyed. Emphysema is included in a group of diseases called chronic obstructive pulmonary disease (COPD).
- (c) Potassium Nitrate occurs as a mineral niter and is a natural solid source of nitrogen. Potassium nitrate is one of several nitrogen-containing compounds collectively referred to as saltpeter.
- 89. (a) Eutrophication is the gradual increase in the concentration of phosphorus, nitrogen, and other nutrients in an aquatic ecosystem such as a lake. Due to nutrient salts excessive structural changes takes place in the ecosystem such as increased production of algae and aquatic plants, depletion of fish species, general deterioration of oxygen and water quality etc.
- 90. (b) Out of the given alternatives the best way to maintain a natural equilibrium between the pest and the predator is by using biological control.
- 91. (b) Dry ice is the solid form of carbon dioxide. It is used primarily as a cooling agent. Its advantages include lower temperature than that of water ice and not leaving any residue.
- (a) Ferromagnetic substances are those which gets strongly magnetised when placed in an external magnetic field. Iron, cobalt etc. are examples of ferromagnetic substances.
- 93. (d) The pinhole camera works on the concept of the rectilinear propagation of light. Each point on the surface of an illuminated object reflects rays of light in all directions. The small hole in the camera lets through a certain number of these rays which continue on their course until they meet the projection plane where they produce a reverse image of the object.
- (c) With the rise of temperature, the velocity of gas molecules increases, increasing the kinetic energy.

- 95. (d) sex of a child is determined at the time of conception. When the child is conceived, sperm carrying X or Y chromosome fertilizes with egg which carries only X. Depending upon the X or Y from sperm it resulted into female or male progeny.
- 96. (a) Producers, consumers and decomposers are the major components of a food chain. Although all the components are important, the decomposers use the energy available in dead organisms; break them down into useful nutrients; recycle and maintain the nutrients back to the soil.
- 97. (b) Chimpanzee is most closest to the modern man.
- (b) A gram of fertile agricultural soil generally contains between 100 million and 1 billion bacteria.
- (c) During a reduction reaction, addition of one or more electrons/addition of hydrogen or removal of oxygen takes place.
- 100. (d) Tetraethyllead is an organolead compound used as a petro-fuel additive that allowed engine compression to be raised substantially. This in turn increased vehicle performance.
- (d) Rickets is caused by deficiency of Vitamin-D. Deficiency of Vitamin-E causes hemolysis, sterility among various disorders.
- 102. (a) Wool under certain conditions releases ammonia following destructive distillation.
- 103. (a) During respiration CO<sub>2</sub> and water is released along with generation of energy rich molecules-ATP.
- 104. (b) Global network of daily temperature record created around 1920.
- 105. (d) Sex hormones like estrogen, progesterone, testosterone etc. are mainly steroidal in nature.
- 106. (c) Two pollutants emitted by motor vehicles react to form ground-level ozone or smog which can cause respiratory problems and reduce visibility.
- 107. (b) Green glands in some crustaceans have an excretory function and open at the bases of the larger antennae.
- 108. (b) The exchange of gases during respiration takes place through diffusion. At the respiratory membrane, where the alveolar and capillary walls meet, gases move across the membranes, when O<sub>2</sub> enters the bloodstream and CO<sub>2</sub> exits.
- 109. (c) Cardiac muscle is an involuntary striated muscle tissue found only in the organ heart. Involuntary muscles are smooth muscles that are not directly controllable at will. For example You don't have to remind yourself to make your heart beat, so it is involuntary. Voluntary muscles are controllable like those found in arms, legs, hands, etc.
- 110. (a) Soil salinity are measured by passing an electric current between the two electrodes of a Conductivity meter (salinity meter) in a sample of soil.
- 111. (c) Ringworm is common disease, especially among children. It is caused by a fungus, not a worm like the name suggests. It is a common and highly infectious skin infection that causes a ring-like red rash on the skin.

- 112. (a) Chickenpox is caused by the varicella-zoster virus. Variola virus is the causative organism of smallpox.
- 113. (a) Instruments can be shielded from outside magnetic effects by surrounding them with iron shield, generally of high permeability.
- 114. (d) Marble, chalk and limestone are all carbonates of calcium, whereas slaked lime is calcium hydroxide.
- 115. (c) Centrifugal force is an example of a pseudo-force, that is, an apparent force to someone whose frame of reference is not at rest or moving with a constant velocity. In the case of centrifugal force, the frame of reference is rotating.
- 116. (d) Pascal's law states that increase in pressure at a point in the enclosed liquid in equilibrium is transmitted equally in all directions in liquid and to the walls of the container, hydraulic brakes works on this principle.
- (c) Organic reaction used to convert a primary amide to a primary amine is known as the Hofmann rearrangement.
- (c) An antacid is a substance which neutralizes stomach acidity.
- 119. (a) Annealing is the process by which both metal and glass are treated with heat in order to change their properties.
- 120. (b) Denatured ethanol is chemically ethanol in which substances are added to make it unfit for drinking by way of making it bad-tasting, foul-smelling etc.
- 121. (d) For removal of phenol from the contaminated water the polymeric adsorption is involved. In this process, the molecules of the contaminant are retained on the surface of the adsorbent material and then can be separated from the water.
- 122. (d) The stability of a pond ecosystem like any ecosystem depends mainly on the producers and consumers.
- 123. (d) Sonic boom or supersonic boom is a common name for the loud noise that is created by the 'shock wave' produced by the supersonic planes.
- 124. (c) This is because the scattering in red light is less than that of yellow colour. The longest visible wavelength is red and the shortest is violet. The wavelength of red light is more than yellow light.
- 125. (a) Transboundary pollution is the pollution that originates in one country but is able to cause damage in another country's environment, by crossing borders through pathways like water or air. Acid rain is a classic example of a transboundary pollution because it can be blown anywhere by the wind. Sulphur dioxide and nitrous oxides are the two main chemicals that react with water to make acid rain. The chemicals are commonly released from power stations, factories and transport.
- 126. (a) The Nicobar pigeon is a pigeon found on small islands and in coastal regions from the Nicobar Islands, India, through the Malay Archipelago, to the Solomons and Palau. It is the only living member of the genus Caloenas and the closest living relative of the extinct dodo.

- 127. (a) A limnic eruption, also referred to as a lake overturn, is a rare type of natural disaster in which dissolved carbon dioxide (CO<sub>2</sub>) suddenly erupts from deep lake waters, forming a gas cloud that can suffocate wildlife, livestock and humans.
- 128. (c) The inventor of blood group is Karl Landsteiner. He was born in Vienna, June 14, 1868.
  He was awarded Nobel Prize for Medicine and Physiology in 1930. This is because the classification of all types of blood into four namely; A, B, AB, and O in the year 1909.
- 129. (a) Egg yolk is a rich source of fat. In addition it also contains protein.
- 130. (b) Blood is a fluid connective tissue.
- 131. (b) DPT refers to a class of combination vaccines against three infectious diseases in humans: diphtheria, pertussis (whooping cough), and tetanus. The vaccine components include diphtheria and tetanus toxoids and kills whole cells of the organism that cause pertussis.
- 132. (a) Smallpox eradicated by a collaborative global vaccination programme led by the World Health Organization. This deadly disease was officially declared eradicated in 1979.
- 133. (c) There are three germ pores in pollen grains of dicots.
- 134. (b) Farad is the SI unit of capacitance.
- 135. (b) In physics a substance is known as more elastic if it offers greater resistance to deformation than other bodies. Steel requires larger deforming force than rubber, hence it is more elastic.
- 136. (d) Among the given alternatives only microwaves are types of electromagnetic radiations.
- 137. (b) The oxalic acid is an ideal chemical for cleaning purposes. Its bleach-like qualities make it perfect for sterilizing household items. It is also efficient in removing rust on various different surfaces. Stains on counters, bathtubs and kitchen sinks can be removed through careful application of this chemical.
- 138. (b) Ammonium sulfate (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, is an inorganic salt most commonly used as a fertilizer. It contains 21% nitrogen and 24% sulfur.
- 139. (d) Rectified spirit, also known as neutral spirits, rectified alcohol, or ethyl alcohol of agricultural origin is highly concentrated ethanol which has been purified by means of repeated distillation, a process that is called rectification. It is 95.5% alcohol and 4.5% water. It is treated with CaO to form lime of alcohol, which undergoes fractional distillation to give ethanol.
- 140. (c) progestin (synthetic form of progesterone) and estrogens are commonly used in oral contraceptives to prevent pregnancy.
- 141. (d) The Intergovernmental Panel on Climate Change (IPCC) is a scientific and intergovernmental body under the auspices of the United Nations, set up at the request of member governments, dedicated to the task of providing the world with an objective, scientific view of climate change and its political and economic impacts.

- 142. (c) According to Central Pollution Control Board, the permissible sound level in residential areas is 55 dB and 45 dB during daytime and night respectively.
- 143. (b) Endosulfan spray on cashew crops resulted in the pollution to the tune of tragedy in various regions in Kerala including Kasaragod.
- 144. (c) Hypothermia is a medical emergency that occurs when our body loses heat faster than it can produce heat, causing a dangerously low body temperature. Normal body temperature is around 98.6° F (37°C). Hypothermia occurs as our body temperature passes below 95° F (35°C).
- 145. (c) Semiconductors are insulators at low temperatures and reasonably good conductors at higher temperatures. As temperature increases, the semi–conductor material becomes a better and better conductor.
- 146. (c) Mass of proton is  $1.672621777 (74) \times 10^{-27}$  kg. An electron has a mass  $(9.1093829140) \times 10^{-31}$  kg) that is approximately 1/1836 that of the proton. The mass of neutron is slightly larger than that of a proton. The mass of the hydrogen nucleus is  $1.7 \times 10^{-27}$  kg. The heaviest of these particles is the neutron.
- 147. (a) A television channel is a physical or virtual channel over which a television station or television network is distributed. Channel numbers represent actual frequencies used to broadcast the television signal. For example, in North America. "Channel 2" refers to the broadcast or cable band of 54 to 60 MHz, with carrier frequencies of 55.25 MHz for NTSC analog video (VSB) and 59.75 MHz for analog audio (FM), or 55.31 MHz for digital ATSC (8VSB).
- 148. (b) Water never has an absolute density because its density varies with temperature. Water has its maximum density of lg/cm<sup>3</sup> at 4 degrees Celsius. When the temperature changes from either greater or less than 4 degrees, the density will become less than 1 g/cm<sup>3</sup>.
- 149. (c) Photosynthesis is the process by which light energy is converted into chemical energy by organisms. Carbon dioxide and water are the raw materials of this process. The light energy comes from the sun and its end products are oxygen and glucose.
- 150. (b) An emulsion is a mixture of two or more liquids that are normally immiscible (nonmixable or unblendable). Emulsions are part of a more general class of two-phase systems of matter called colloids. In an emulsion, one liquid (the dispersed phase) is dispersed in the other (the continuous.
- 151. (b) The active ingredient in Dettol that confers its antiseptic property is chloroxylenol (C<sub>8</sub>H<sub>9</sub>OCl), an aromatic chemical compound. Chloroxylenol comprises 4.8% of Dettol's total mixture, with the rest composed of pine oil, isopropanol, castor oil soap caramel and water.
- 152. (c) Researchers in Mangolia and China completed studies to unravel the genomic Peculiarities behind the physiological tricks that camels use to survive in the harshest of conditions. They described the genomes of wild and domesticated Bactrian camels.

- 153. (d) Fine particles known as PM<sub>10</sub> and PM<sub>2.5</sub>can penetrate deep into the lungs, creating health problems. People with heart or lung diseases, older adults, and children are most likely to have problems because of contact with particle pollution. Short–term exposure to PM among pregnant women has been associated with preterm growth and growth retardation in neonates.
- 154. (d) PNG is a mixture consisting mainly methane CH<sub>4</sub> with a small percentage of other higher hydrocarbons. The ratio of carbon to hydrogen is least in methane and hence it burns almost completely making it the cleanest fuel. Domestic PNG customers, also known as Residential customers, use gas for cooking purpose and also for heating water through gas geysers.
- 155. (d) Green Park Stadium is a 60,000 capacity floodlit multipurpose stadium located in Kanpur, India, and the home of the Uttar Pradesh cricket team.
- 156. (c) According to the Red list of 2012 Ganges River Dolphin is one of critically endangered species in India. Endangered species in India comprise large varieties of rare species of wild animals, aquatic animals and insects.
- 157. (c) Arson is the crime of intentionally and maliciously setting fire to buildings, wild land areas, vehicles or other property with the intent to cause damage. Distinct from spontaneous combustion and natural wildfires, it is considered to be a man-made disaster which is socially induced.
- 158. (b) The thyroid gland is one of the largest endocrine gland in the throat, and consists of two connected lobes. It is found at the front of the neck, below the Adam's apple. The thyroid gland secretes thyroid hormones, which influence the metabolic rate, protein synthesis, and have a wide range of other effects, including on development.
- 159. (b) The cerebrum is the seat of intelligence and provides us with the ability to read, write and speak, make calculations and compose music; remember the past and plan for the future; and create works.
- 160. (c) The average adult has a blood volume of roughly 5 liters, which is composed of plasma and several kinds of cells. By volume, the red blood cells constitute about 45% of whole blood, the plasma about 54.3%, and white cells about 0.7%.
- 161. (c) The normal range of, conentration of fasting blood sugar is 80 to 120 mg/ml; in the testing of true blood sugar, the normal range of concentration is 70 to 100 mg/ml. so normal glucose levels fall between 70 and 150 mg. Higher levels may indicate diseases such as diabetes mellitus.
- 162. (b) Entomology is the scientific study of insects. It is derived from the Greek word 'entomos' which means "that which is cut in pieces or engraved/segmented", hence "insect".

- 163. (b) (b) and (c) \* Exobiology is the branch of science that deals with the possibility of life in space including other planets.
- 164. (c) The ionosphere is a region of Earth's upper atmosphere, from about 60 km (37 mi) to 1,000 km (620 mi) altitude and includes the thermosphere and parts of the mesosphere and exosphere, it is ionized by solar radiation, plays an important part in atmospheric electricity and forms the inner edge of the magnetosphere. It has practical importance because among other functions, it influences radio propagation to distant places on the Earth.
- 165. (a) Coral reefs are underwater structures made from calcium carbonate secreted by corals. Coral reefs are colonies of tiny animals found in marine waters that contain few nutrients.
- 166. (a) Phytochrome is a photoreceptor, a pigment that plants use to detect light. It is a protein with a bilin chromophore. It detects mainly red and far-red region of the visible spectrum and also regulates germination of seeds.
- 167. (c) Quenching is a process in which absorbed light energy is dissipated as heat and does not take part in photochemistry. The phenomenon involves quenching of chlorophyll-a fluroescence, which is induced under steady-state illumination.
- 168. (c) AIDS virus destroys the T-cells of the immune system. T cells or T lymphocytes belong to a group of white blood cells known as lymphocytes, and play a central role in cell – mediated immunity.
- 169. (a) Bragg Spectrometer is an instrument used to analyze crystal structure by using X- rays. In it, a beam of collimated X-rays strikes the crystal, and a detector measures the angles and intensities of the reflected beam.
- 170. (a) Alpha particles consist of two protons and two neutrons bound together into a particle identical to a helium nucleus, which is generally produced in the process of alpha decay.
- 171. (c) The human body requires more calcium than any other mineral. At least 99% of the calcium is found in the bones and teeth, giving them strength and rigidity.
- 172. (a) Heterocercal type of tail is found in Sharks. In this type of tail the vertebral column bends upwards and reaches up to the tip of the more prominent dorsal lobe due to which caudal fin becomes asymmetrical and thus called as heterocercal type.
- 173. (a) The sigmoid colon is the part of the large intestine. It forms a loop that averages about 40 cm in length.
- 174. (b) A good conductor of electricity while carrying current remains electrically neutral because the total number of electrons and protons always remains same in the conductor.

- 175. (c) Containment of toxic or hazardous constituents in industrial solid wastes is currently being accomplished using: (i) coating grains of waste material with an inert and non-reactive impervious material (microencapsulation), and (ii) coating blocks of waste material with an inert, non-reactive impervious material (microencapsulation).
- 176. (b) UV radiation can be an effective viricide and bactericide. Disinfection using UV radiation is commonly used in wastewater treatment and is finding an increased usage in drinking water treatment.
- 177. (b) When cells are exposed to sunlight, radiant energy can damage the DNA. For example, ultraviolet irradiation cause covalent bond formation between adjacent thymines on the same strand of DNA. Ultraviolet light is absorbed by a double bond in thymine and cytosine bases in DNA.
- 178. (a) In order to manufacture silicones, alkyl-substituted chlorosilanes are used as starting material. Since dimethylsilane contains – OH group at the end of the chain, polymerization and chain length increases. However, the hydrolysis of alkyl trichlorosilane gives very complex cross linked polymer.
- 179. (b) Examples of natural colloids can be found in our body itself: blood consists of colloidal sized red blood corpuscles (RBC) which carry the vital oxygen to all the body tissues.
- 180. (a) Nickel silver, also known as German silver, is a copper alloy with nickel and often zinc. The usual formulations is 60% copper, 20% nickel and 20% zinc. Nickel silver is named for its silvery appearance, but it contains no elemental silver unless plated.
- 181. (d) Atomic absorption spectroscopy is an analytical chemistry technique used for determining concentration of particular metal element and is widely used in pharmaceutics. It was used for the determination of cobalt in Vitamin B12.
- 182. (c) Prof. Ananda Mohan Chakrabarty genetically engineered a new species of Pseudomonas bacteria ("the oil-eating bacteria") in 1971 while working for the Research & Development Center at General Electric Company in Schenectady, New York.
- 183. (a) Devarda's alloy is an alloy of aluminium (44% 46%) copper (49% 51%) and zinc (4% 6%). Devarda's alloy is used as reducing agent in analytical chemistry for the determination of nitrates after their reduction to ammonia under alkaline conditions. It owes its name to the Italian chemist Arturo Devarda (1859-1944), who synthezised it at the end of the 19th century to develop a new method to analyze nitrate in Chile saltpeter.
- 184. (a) Grit chambers are long narrow tanks that are designed to slow down the flow so that solids such as sand, coffee grounds, and eggshells will settle out of the water. Grit causes excessive wear and tear on pumps

- and other plant equipment. Its removal is particularly important in cities with combined sewer systems, which carry a good deal of silt, sand, and gravel that wash off streets or land.
- 185. (a) Cysteine (abbreviated as Cys or C) is an α-amino acid with the chemical formula HO<sub>2</sub>CCH(NH<sub>2</sub>)CH<sub>2</sub>SH. It is a semi-essential amino acid, which means that it can be biosynthesized in humans. The thiol side chain in cysteine often participates in enzymatic reactions, serving as a nucleophile.
- 186. (d) Neon is a chemical element with symbol Ne and atomic number 10. It is in group 18 (noble gases) of the periodic table. Neon is a colorless, odorless, inert monatomic gas under standard conditions, with about two-thirds the density of air.
- 187. (b) The aorta is the largest artery in the human body, originating from the left ventricle of the heart and extending down to the abdomen, where it bifurcates into two smaller arteries (the common iliac arteries). The aorta distributes oxygenated blood to all parts of the body through the systemic circulation.
- 188. (c) Parathyroid hormone (PTH), parathormone or parathyrin, is secreted by the chief cells of the parathyroid glands as a polypeptide containing 84 amino acids. It acts to increase the concentration of calcium (Ca<sup>2+</sup>) in the blood, whereas calcitonin (a hormone produced by the parafollicular cells (C cells) of the thyroid gland) acts to decrease calcium concentration.
- 189. (c) Insects, and some other invertebrates, exchange oxygen and carbon dioxide between their tissues and the air by a system of air-filled tubes called tracheae.
- 190. (c) In a nuclear reaction, the total (relativistic) energy is conserved. The "missing" rest mass must therefore reappear as kinetic energy released in the reaction; its source is the nuclear binding energy.
- 191. (b) Annihilation is the process that occurs when a subatomic particle collides with its respective antiparticle to produce other particles, such as an electron colliding with a positron to produce two photons.
- 192. (a) In the photoelectric effect, electrons are emitted from solids, liquids or gases when they absorb energy from light. Electrons emitted in this manner may be called photoelectrons.
- 193. (c) A hodograph of a particle moving with constant velocity is a point, and the corresponding trajectory is a straight line.
- 194. (b) Aluminium oxide has a very high melting point (over 2,000°C), so it would be expensive to melt it. Instead, it is dissolved in molten cryolite, an aluminium compound with a lower melting point than aluminium oxide. The use of cryolite reduces some of the energy costs involved in extracting aluminium.

- 195. (c) Glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>, also known as D-glucose, dextrose, or grape sugar) is a simple monosaccharide found in plants. It is one of the three dietary monosaccharides, along with fructose and galactose, that are absorbed directly into the bloodstream during digestion.
- 196. (b) Any of the homologous segments, lying in a longitudinal series, that compose the body of certain animals, such as earthworms and lobsters. Also called somite.
- 197. (a) Leachate is the term for pollutants and other liquid wastes that is formed from liquids present in the waste and from external water. It percolates and contaminates ground water.
- 198. (d) Each lung is enclosed within a cavity known as the pleural cavity. The pleural cavity is the space between the visceral and parietal layers of lungs.
- 199. (d) Mother's milk is the ideal food for the newborn. Mother's mik is loaded with various nutrients like Vitamins, minerals, enzymes, growth factors, proteins, antibodies etc.
- 200. (d) Transcription is the process in which a particular segment of DNA is copied into RNA by the enzyme RNA polymerase. During transcription, a DNA sequence is read by an RNA polymerase, which produces a complementary, anti-parallel RNA strand called a primary transcript.
- 201. (b) Hydrochloric acid is secreted by the parietal cells present in the stomach. The acidic pH helps in digestion of food by providing optimal pH for pepsin and gastric lipases.
- 202. (a) Emulsification is the process of breaking down of fat into small globules. Bile salts helps in emulsification inside the GI tract. Emulsification provides a larger surface for pancreatic lipase for digestion of fats into fatty acids and glycerol.
- (c) Taxonomy is the branch of science that deals with the classification of organisms.
- 204. (c) The Newton's disc consists of red, orange, yellow, green, blue, indigo and violet colours that appear white when it spins at high speed. The appearance is due to the concept of persistence of vision, which states that the human visual perception cannot distinguish details of high-speed movements.
- 205. (a) Force = Mass x Acceleration=MLT-2
- 206. (c) In 1900, the German physicist Max Planck introduced the idea that energy is quantized in order to derive a formula for the observed frequency dependence of the energy emitted by a black body, called Planck's law, that included a Boltzmann distribution.
- 207. (d) A fiber optic consists of glass threads, each of which is arranged in bundles called optical cables. It is used to transmit light signals over long distances due to repeated bouncing of light off the walls due to total internal reflection of light.

- 208. (c) Chitin is a hard, tough substance that occurs widely in nature, particularly in the shells (exoskeletons) of arthropods such as crabs, insects and spiders. The walls of hyphae are composed of slightly different chitin. Chemically chitin is a polysaccharide, derived from glucose.
- 209. (d) Rutherford scattering experiment concluded that alpha particles are deflected back by a positive charge concentrated in the centre of atom. Hence, the incident alpha particles very close to this positive mass (later called as nucleus) in the centre of the atom gets deflected, while if it passes through at a fair distance from this mass, then it would simply pass through.
- 210. (c) An atom in the excited state is not stable and hence when it returns back to the ground state, it releases the energy in the form of light that it had previously gained and thus emission spectra is observed.
- 211. (a) Excessive secretion of thyroxine can cause an excessively high metabolic rate, which results in hypermetabolic state. It can result into an increased heart rate and elevated blood pressure.
- 212. (a) The concept of Greenhouse gases (GHGs) was postulated by Joseph Fourier. It was earlier in the 20<sup>th</sup> century that the scientists started exploring the relationship behind glacial periods of ice age and atmospheric CO<sub>2</sub>.
- 213. (c) In December 1984, at least 30 tons of Methyl isocyanate gas was leaked from the Union Carbide pesticide factory in Bhopal. It is one of the major industrial disasters of the world killing over 15000 people and affected more than 600,000 workers and inhabitants over the years.
- 214. (c) Particulate matter (PM10) which is defined as the fraction of particles with an aerodynamic diameter smaller than 10 μm is filtered out by the process of sneezing and coughing.
- 215. (b) Recently scientists in China sequenced the DNA of the wild bactrian camel, to study camel's salt tolerance. Camels consume eight times more salt than cattle or sheep and have twice the blood glucose levels of other ruminants.
- 216. (c) Succulent plants store water in their stems or leaves. They include the Cactaceae family, which has round stems and can store a lot of water. The leaves are often vestigial, as in the case of cacti, wherein the leaves are reduced to spines, or they do not have leaves at all. Water is stored in the bulbs of some plants, at or below ground level. They may be dormant during drought conditions and are, therefore, known as drought evaders.
- 217. (a) Thorium is an element which are used in radioactive chemicals and is non-renewable where as all other three options are power generating systems which are regenerated.

- 218. (a) Archegonium is the female reproductive organ in ferns and mosses. An archegonium also occurs in some gymnosperms, e.g. cycads and conifers. A flask-shaped structure, it consists of a neck, with one or more layers of cells, and a swollen base-the venter-which contains the egg.
- 219. (b) Trochodendron is a genus of flowering plants with one living species, *Trochodendron aralioides*, and six extinct species known from the fossil record.
- 220. (a) A Caesarean section (often C-section) is a surgical procedure in which one or more incisions are made through a mother's abdomen (laparotomy) and uterus (hysterotomy) to deliver one or more babies. The first modern Caesarean section was performed by German gynecologist Ferdinand Adolf Kehrer in 1881. But in ancient medical history Julius Caesar was the first person to be borne by this method and thus the operation named after him.
- 221. (b) Study of ants is called Myrmecology.
- 222. (a) A Reverse transcriptase (RT) is an enzyme used to generate complementary DNA (cDNA) from an RNA template, a process termed reverse transcription. RT is needed for the replication of retroviruses (e.g., HIV), and RT inhibitors are widely used as antiretroviral drugs.
- 223. (c) Fleming's right-hand rule (for generators) shows the direction of induced current when a conductor moves in a magnetic field. The right hand is held with the thumb, first finger and second finger mutually perpendicular to each other (at right angles).
- 224. (b) The watt (symbol: W) is a derived unit of power in the International System of Units (SI), named after the Scottish engineer James Watt (1736-1819).
- 225. (d) The NIOSH states "Under dry conditions, the resistance offered by the human body may be as high as 100,000 Ohms. Wet or broken skin may drop the body's resistance to 1,000 Ohms," adding that "high-voltage electrical energy quickly breaks down human skin, reducing the human body's resistance to 500 Ohms."
- 226. (a) The critical temperature for superconductors is the temperature at which the electrical resistivity of a metal drops to zero. The transition is so sudden and complete that it appears to be a transition to a different phase of matter.
- 227. (a) Brass is an alloy made of copper and zinc; the proportions of zinc and copper can be varied to create a range of brasses with varying properties.
- 228. (d) Wrought iron is an iron alloy with a very low carbon content, in comparison to steel, and has fibrous inclusions, known as slag. This is what gives it a "grain" texture resembling wood, which is visible when it is etched or bent to the point of failure. Wrought iron is tough, malleable, ductile and easily welded.

- 229. (b) Galvanization, or galvanisation, is the process of applying a protective zinc coating to steel or iron, to prevent rusting. The most common method is hot-dip galvanization, in which parts are submerged in a bath of molten zinc.
- 230. (b) A homogeneous mixture is a type of mixture in which the composition is uniform and every part of the solution has the same properties. A homogeneous mixture in which there is both a solute and solvent present is known as solution.
- 231. (c) The plant epidermis consists of three main cell types: pavement cells, guard cells and their subsidiary cells that surround the stomata.
- 232. (a) As sugar concentration increases in the guard cells, as a result water enters the guard cells. The guard cells become turgid (swollen with water). The thin outer walls bulge out and force the inner wall into a crescent shape. In this way a stoma or pore is formed between each pair of guard cell.
- 233. (c) Mahyco, an Indian seed company based in Jalna, Maharashtra, has developed the Bt brinjal. The genetically modified brinjal event is termed Event EE 1 and Mahyco have also applied for approval of two brinjal hybrids.
- (d) Electric current is measured using a device called as ammeter.
- 235. (d) Photoperiodism is the physiological reaction of organisms to the length of day or night. It occurs in plants and animals. It affects Flowering, Vegetative growth and fruiting in plants.
- 236. (d) The correct match is as follows:
   Ascorbic acid- Vitamin C
   Chlorophyll- Photosynthetic pigment
   Carotenoid- Quencher
   Superoxide dismutase- Enzyme
- (b) Allantois is a membrane around developing embryo which is primarily involved in nutrition exchange and excretion.
- 238. (d) Haliotis belongs to Mollusca.
- 239. (a) Although most DNA is packaged in chromosomes within the nucleus, mitochondria also have a small amount of their own DNA. This genetic material is known as mitochondrial DNA or mtDNA
- 240. (c) First class proteins contain all the essential amino acids in sufficient amounts. Animal proteins obtained from milk, egg, fish, meat etc. are first class proteins. These are also called adequate proteins.
- 241. (b) Needle exerts more pressure than nail on the balloon.
- 242. (c) The speed of sound is greater in moist air than in dry air because moist air have larger density than dry air. Velocity of sound is directly proportional to the density of the medium in which it travels.
- 243. (b) X rays are frequently used to check the defects in Diamonds and other precious stones.

- 244. (a) When ice is kept on saw dust then it does not melt quickly as it's an insulator of heat and air does not circulate in good insulators. So, it prevents ice from melting quickly.
- 245. (a) When a drop of Glycerol is added to crushed KMnO<sub>4</sub> spread on a paper there is a violent explosion.
- 246. (c) A bleaching agent is a material that lightens or whitens a substrate through chemical reaction. The most common bleaching agents generally fall into two categories: chlorine and its related compounds (such as sodium hypochlorite) and the peroxygen bleaching agents, such as hydrogen peroxide and sodium perborate.
- 247. (a) Alpha particles are the least penetrating as they are the most densely ionizing. The penetrating power of nuclear radiation depends upon the ionizing power of the radiation. The more localised the ionization the less penetrating power it will possess.
- 248. (a) Hydrogen- peroxide is an effective sterilizing agent. Water results when it readily loses active oxygen.
- 249. (c) The maximum fixation of solar energy is done by green plants. The energy is stored in the plants as carbohydrates for their metabolic activities as growth, respiration etc.
- 250. (a) The term 'brown air' is used for photochemical smog. The brown color is cause by the presence of a various Nitrous Oxides.
- 251. (c) Peroxyacetyl nitrate is a secondary pollutant present in photochemical smog. It is thermally unstable and decomposes into peroxyethanoyl radicals and nitrogen dioxide gas.
- 252. (b) Wave particle duality is a quantum mechanics effect. It means the electron sometimes acts like a particle and sometimes it acts like a wave. It depends on the situations.
- 253. (b) Vitamin B12 consists of a class of chemically related compounds (vitamers). It contains the biochemically rare element cobalt.
- 254. (c) In 1904 the German agronomist and plant physiologist Lorenz Hiltner first coined the term "rhizosphere" to describe the plant-root interface, a word originating in part from the Greek word "rhizo", meaning root. Hiltner described the rhizosphere as the area around a plant root that is inhabited by a unique population of microorganisms influenced, he postulated, by the chemicals released from plant roots.
- 255. (c) Reverse transcription were discovered by Howard Temin and independently isolated by David Baltimore.
- 256. (d) Steam will produce more severe burns than boiling water because steam has more heat energy than water due to its latent heat of vaporisation.
- 257. (c) Fructose is the sweetest of all natural sugar types.
- 258. (c) Zone melting, any of a group of techniques used to purify an element or a compound or control its composition by melting a short region (i.e. zone) and

- causing this liquid zone to travel slowly through a relatively long ingot, or charge, of the solid.
- 259. (b) 'Denirification' is the biological conversion of nitrate to nitrogen gas, nitric oxide or nitrous oxide. These compounds are gaseous compounds and are not readily available for microbial growth; therefore they are typically released to the atmosphere.
- 260. (b) Holstein Friesians are a breed of cattle known today as the world's highest-production dairy animals. They are found in Europe and America.
- 261. (c) Coagulation removes dirt and other particles suspended in water. Alum and other chemicals are added to water to form tiny sticky particles called "floc" which attract the dirt particles. The combined weight of the dirt and the alum (floc) become heavy enough to sink to the bottom during sedimentation.
- 262. (c) Retroviral integrase (IN) is an enzyme produced by a retrovirus (such as HIV) that enables its genetic material to be integrated into the DNA of the infected cell.
- 263. (b) The relationship between two specific heat of gases i.e. on constant pressure and on constant volume is given by, Cp-Cv=R (or RJ).
- 264. (c) Penicillin is a group of antibiotics derived originally from genus of fungus *Penicillium*.
- 265. (c) The colour of a star is a major Indicator of its surface temperature.
- 266. (b) The atomic number of an element refers to the number of protons present in the nucleus of that atom. Based on atomic number the elements are placed in the periodic table.
- 267. (d) DPT is a class of vaccines known as combination vaccines due to presence of components which provide immunity against three major infectious diseases in humans. These are diphtheria, pertussis (whooping cough), and tetanus.
- 268. (a) High grade (HG) and Ultra high grade (UHG) anthracite are the highest grades of anthracite coal.
- 269. (a) Diode is an important electrical component which function as rectifier by allowing the flow of current in only one direction. The most common type of diode uses a p-n junction. In circuit diagrams, a diode is represented by a triangle with a line across one vertex.
- 270. (b) Anemometer is an instrument for measuring the speed of the wind, or of any current of gas.
- 271. (b) The retina of the eye has two types of light-sensitive cells called rods and cones. Both are found in the retina which processes images. Rods work in low light conditions to help night vision, but cones work in daylight and are responsible for colour discrimination.
- 272. (a) The vegetable fibres are composed of or cellulose based fibres. These class of fibres are commercially important fibres like cotton, jute etc.
- 273. (a) When an object is thrown vertically upwards it started decelerating under the earth's gravity. Its speed decreases until it attains a maximum height, where the velocity becomes zero. Then it is accelerated uniformly downwards under gravity.

- 274. (b) Fermentation is an anaerobic metabolic process and it does not require oxygen in order to occur. During Fermentation of carbohydrates such as starch or sugar, ethyl alcohol (ethanol) or lactic acid is produced generally.
- (d) It depends upon waveform produced by the musical sound.
- 276. (a) Electrostatic Precipitators are used for removal of pollutants or impurities from air. It functions by electrostatically charging particles in the air. The charged particles are attracted to and deposited on collection plates.
- 277. (b) Leaves being green in color reflect green color and therefore is least absorbed during the process of photosynthesis.
- 278. (c) Activated Coconut Charcoal acts as best adsorbent among the given choices as it has more surface area for better adsorption.
- (d) Green plants account for the maximum fixation of solar energy.
- 280. (b) Parsec (symbol: pc) is a unit of length used to measure large distances of objects outside our Solar System.
- 281. (a) At standard room temperature mercury (Hg) and bromine (Br) are in liquid state.

- 282. (a) Phenol, also known as carbolic acid, is an aromatic organic compound with the molecular formula C<sub>6</sub>H<sub>5</sub>OH. It is a white crystalline solid that is volatile. The molecule consists of a phenyl group (-C<sub>6</sub>H<sub>5</sub>) bonded to a hydroxyl group (OH).
- 283. (b) Urine of a normal healthy person contains around 0.1% creatinine. It is a by-product of creatinine phosphate in body and released from the body through urine.
- 284. (b) It grows larger until puberty and then begins to shrink. The gland produces thymosins, which are hormones that stimulate the development of antibodies.
- 285. (b) The Blood group AB has both A and B antigens, but no antibodies. It is therefore known as Universal Acceptor.
- (d) Vitamins A,D,E, and K are fat soluble and deposit in body tissues.
- 287. (d) During chain reaction, neutrons are released in a repeated process producing enormous energy for atomic power during controlled reaction and atomic explosion in uncontrolled one.
- 288. (c) Refraction refers to change in direction of light as a result of its travelling at different speeds due to change in medium.
- 289. (b) When water freezes the mobile molecules inside it are forced to assume fixed positions in the ice. This reduces the molecular disorder of the system and therefore decreases the entropy.
- 290. (c) Two vectors are said to be equal if both the magnitude and direction are same.
- 291. (a) Generally all the viruses contain a protein capsid and nucleic acid genome. The nucleic acid may either DNA or RNA, while capsid functions as envelope to the

- genome. Both genome and capsid together known as nucleocapsid.
- 292. (d) Lichens can be used as air pollution indicators, especially of the concentration of sulfur dioxide in the atmosphere. Lichens are plants that grow in exposed places such as rocks or tree bark. They need to be very good at absorbing water and nutrients to grow there
- 293. (c) Irrigation salinity is the rise in saline groundwater and the build-up of salt in the soil surface in irrigated areas. It is caused by using large volumes of irrigation water that locally raise groundwater levels and mobilise salt. Irrigation salinity is made worse when water used to irrigate is from salty sources.
- 294. (b) Pepsin is one of the enzymes that helps in digestion of proteins. In the stomach, the enzyme breaks down protein into smaller pieces called peptides. These peptides are further digested by a variety of proteases and peptidases in the intestine.
- 295. (b) Fermentation is an important step of metabolism which is facilitated in the absence of oxygen. It is also involved in the preparation of wine, alcoholic beverages etc. with the help of microorganisms.
- 296. (c) Saffron, a spice derived from the dried stigmas of the
  - saffron crocus a small plant about a foot tall. Each flower has three female parts (stigmas) two male parts (stamens), each stigmas is red or dark red in color towards the top and yellow towards the bottom of the stigma, where it is attached to the flower.

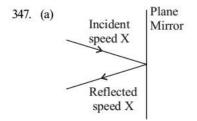
- 297. (d) Suspended colloidal particles in water are a major concern in pollution control. These particles can be removed by the process of coagulation. In this process the destabilization of colloidal particles takes place by addition of chemical reagents (coagulants).
- 298. (a) Graves' disease is caused due to hyperthyroidism, that is overproduction of thyroid hormones. Although a number of disorders may result in hyperthyroidism, this disease is generally caused by the disorder of the immune system.
- 299. (a) The thermal decomposition of zinc carbonate gives rise to zinc oxide and carbon dioxide. The carbon dioxide produced during the process turns lime water milky. The residue is Zinc oxide which changes its colour from yellow to white on cooling.
- 300. (b) Among the given coagulants, Aluminum Chloride is the strongest. Due to its high efficiency and effectiveness in clarification it is used as preferred coagulant for many industrial and wastewater treatment applications.
- (c) Polarization is only exhibited by light waves and not by the sound waves.
- 302. (b) For removal of iron and manganese present in water as impurities, the method that is generally used is oxidation and/or filtration. In special cases adsorbing to ion exchange resins can be introduced as an additional step.

- 303. (c) Diastase is obtained from Red gram.
- 304. (a) Three fourth of the substance will decay in 8 months.
- 305. (c) Chiropterophily is the term used for pollination of flowers with help of bats.
- 306. (c) Graphite is one of the solid lubricants used for reducing the friction. These solid lubricants are used between two sliding surfaces.
- 307. (c) Nerve cell is the longest cell in the human body.
- 308. (c) The acid rain contains acidic components, such as sulfuric and nitric acid. Due to acidity present in the rain it is harmful not only to vegetation but other nonliving structures as well.
- 309. (b) In activated sludge process, wastewater with organic matter is aerated in an aeration basin in which microorganisms metabolize the suspended and soluble organic matter. This is an important stage of the treatment of the sewage water.
- 310. (a) Caustic soda or sodium hydroxide is an important chemical compound used in various industrial as well as domestic uses. It is a white deliquescent solid that is tendency to absorb moisture from the air.
- (b) Red light scatters much less than lights of other color due to its greater wavelength.
- 312. (a) The basic unit of nervous system is known as neuron. The nervous system consists of nerves, brain and spinal cord. They control the working of various organs of the body. The part of brain and spinal cord is called the Autonomic Nervous System.
- 313. (a) A cellulosic wall is found in the cells of plants. Cellulose is an important structural component of the primary cell wall of green plants, many forms of algae and the oomycetes. Some species of bacteria secrete it to form biofilms. Cellulose is the most abundant organic polymer on Earth.
- 314. (c) The filtration unit of kidney is known as nephron. Kidneys filter the nitrogenous waste products of the body through nephron and throw them out in the form of urine. Kidneys and skin are the chief organs of excretion.
- 315. (d) The nutritive tissue in the seeds of higher plants is known as endosperm. Endosperm is the tissue produced inside the seeds of most flowering plants around the time of fertilization. It surrounds the embryo and provides nutrition in the form of starch, though it can also contain oils and protein.
- 316. (b) Yeast is an important source of vitamin B. Yeasts are eukaryotic microorganisms classified in the kingdom Fungi, with 1,500 species (estimated to be 1% of all fungal species). Yeasts are unicellular, although some species with yeast forms may become multicellular through the formation of strings of connected budding cells known as pseudohyphae, or false hyphae, as seen in most molds.
- 317 (d) Enzymes are proteins. Enzymes are large biological molecules responsible for the thousands of metabolic

- processes that sustain life. They are highly selective catalysts, greatly accelerating both the rate and specificity of metabolic reactions, from the digestion of food to the synthesis of DNA. Most enzymes are proteins, although some catalytic RNA molecules have been identified.
- 318. (c) Heating of ore below its melting point in the absence of air is known as calcinations. Calcinations is a thermal treatment process in presence of air or oxygen applied to ores and other solid materials to bring about a thermal decomposition, phase transition, or removal of a volatile fraction
- 319. (b) The most electronegative element among the following is fluorine. Fluorine is a chemical element with symbol F and atomic number 9. It is the lightest halogen and exists as a highly toxic pale yellow diatomic gas at standard conditions. As the most electronegative element, it is extremely reactive: almost all other elements, including some noble gases, form compounds with fluorine.
- 320. (b) NH<sub>4</sub>Cl is the compound which possesses ionic, covalent and coordinate bonds. Ammonium chloride, an inorganic compound with the formula NH<sub>4</sub>Cl, is a white crystalline salt, highly soluble in water. Solutions of ammonium chloride are mildly acidic. Sal ammoniac is a name of the natural, mineralogical form of ammonium chloride
- 321. (a) The depletion of Ozone layer is mainly due to chlorofluorocarbons. A chlorofluorocarbon is an organic compound that contains only carbon, chlorine, and fluorine, produced as a volatile derivative of methane, ethane, and propane. They are also commonly known by the DuPont brand name Freons.
- (c) Bacterium is associated with tuberculosis, Fungus with ringworm, Protozoan with kala-azar and virus with influenza.
- 323. (b) Matter waves are de Broglie waves. In quantum mechanics, the concept of matter waves or de Broglie waves reflects the wave-particle duality of matter. The theory was proposed by Louis de Broglie in 1924 in his PhD thesis. The de Broglie relations show that the wavelength is inversely proportional to the momentum of a particle and is also called de Broglie wavelength.
- 324 (a) When the milk is churned vigorously, the cream is separated out due to centrifugal force. Centrifugal force is the apparent force that draws a rotating body away from the center of rotation. It is caused by the inertia of the body as the body's path is continually redirected.
- 325. (b) Gas thermometers are more sensitive than liquid thermometers because the gases have large coefficient of expansion. Coefficient of Thermal expansion is the tendency of matter to change in volume in response to a change in temperature, through heat transfer. When a substance is heated, its particles begin moving more and thus usually maintain a greater average separation.

- 326. (b) Sun appearing red at sunset is not caused by atmospheric refraction of light. Refraction is essentially a surface phenomenon. During sunrise and sunset, the rays have to travel a larger part of the atmosphere because they are very close to the horizon. Therefore, light other than red is mostly scattered away. Most of the red light, which is the least scattered, enters our eyes. Hence, the sun and the sky appear red.
- 327. (d) Morphine is the most abundant opiate found in opium, the dried latex from unripe seedpods of *Papaver* somniferum (the opium poppy).
- 328. (a) Efforts by the U.S. Soil Conservation Service to promote contouring in the 1930s as an essential part of erosion control eventually leading to its widespread adoption. The practice has been proved to reduce fertilizer loss, power and time consumption, and wear of machines, as well as to increase crop yields and reduce erosion. Contour farming is most effective when used in conjunction with such practices as strip cropping, terracing, and water diversion.
- 329. (b) Glucose has the molecular formula  $\rm C_6H_{12}O_6$  and is thus a hexose sugar.
- 330. (d) Bacteria are prokaryotes, which, by definition, are cells that don't possess membrane-bound organelles. Mitochondria are membrane-bound organelles.
- 331. (d) The rainbow comes from the reflection and refraction of the sunlight in the falling drops; its colors are mainly due to dispersion, which means that the refractive index of water depends on the wavelength of light.
- 332. (c) When a ray of light falls on sea shell, then its small amount gets refracted (slightly polarised) and rest almost gets reflected back (fully polarised).
- 333. (d) An object covers distance which is directly proportional to the square of the time. Its acceleration is constant.
- 334. (b) If the horizontal range of a projectile is four times its maximum height, the angle of projection is 45 degrees. Range is the total horizontal distance covered during the time of flight. It is calculated as  $\frac{u^2 \sin 2\theta}{g}$ , where  $\theta$  is the angle of projection.
- 335. (c) Mercury has the least melting point of the following metals (–38.83°C). Gold, silver and copper have 1064°C, 961.8°C and 1085°C respectively.
- 336. (d) Marsh Gas or methane gas is produced when vegetation decomposes in water. Methane, also called marsh gas is colourless, odourless gas that occurs abundantly in nature as the chief constituent of natural gas, as a component of fire damp in coal mines, and as a product of the anaerobic bacterial decomposition of vegetable matter under water.
- 337. (c) In cactus, spines are modified leaves.
- 338. (b) Mycoplasma are the smallest prokaryotic cells yet discovered, can survive without oxygen and are typically about 0.1 μm in diameter.

- 339. (d) Biodiversity can be thought of as the genetic library that keeps life going on Earth. Biodiversity, short for biological diversity, is the term used to describe the variety of life found on Earth and all of the natural processes. This includes ecosystem, genetic and cultural diversity, and the connections between these and all species.
- 340. (b) Boiling point of water is lower at higher altitudes due to the decreased air pressure. Boiling point of water changes with altitude because atmospheric pressure changes with altitude.
- 341. (a) Sodium thiosulphate, also called sodium hyposulphite or "hypo" is used as a photographic fixer in photography.
- 342. (d) Soldering of two metals in presence of heat is possible due to the forces of adhesion and cohesion which resulted into a stronger joining between two metals.
- 343. (d) Stalactites and Stalagmites are formed due to the precipitation of Calcium carbonate (CaCO<sub>3</sub>).
- 344. (d) Hermaphroditism is a form of sexual reproduction in which an organism can self-fertilize or mate with another individual of the same species.
- 345. (b) Lyman series of hydrogen atom spectral lines in the Ultraviolet
- 346. (b) An electric battery is a device consisting of two or more electrochemical cells that convert stored chemical energy into electrical energy.



- The speed of light remain unchanged after reflection.
- 348. (d) The area reserved for the welfare of wildlife is called National Park.
- 349. (a) When Ammonia gas is dissolved in water, ammonia acquires hydrogen ions from water to produce hydroxide and ammonium ions. Due to presence of hydroxide ions it is basic in nature.
- 350. (c) Mongoloid is a term used for all or some people indigenous to East Asia, Central Asia, Southeast Asia, North Asia, South Asia, the Arctic, the Americas, the Pacific Islands, and other lesser occurrences in other regions. Individuals within these populations often share certain associated phenotypic traits, such as epicanthic folds (skin folds covering the corners of the eyes), sinodonty and neoteny (retaining more juvenile physiological traits).
- (a) Turner Syndrome, represented by 45, X. This occurs in females in which one of the X-chromosomes is missing.

- 352. (d) Myopia also known as short sightedness is a condition of the eye where one looking at a distant object seems a little out of focus.
- 353. (d) In the process of photosynthesis, phytoplankton release oxygen into the water. Half of the world's oxygen is produced from phytoplankton photosynthesis. The other half is produced via photosynthesis on land by trees, shrubs, grasses and other plants.
- 354. (a) Since a first-order reaction proceeds at a rate that depends linearly on concentration of only one reactant, the rate of reaction can be confirmed by increasing the concentration of a reactant.
- 355. (a) Mass is used to represent the amount of matter in an object.
- 356. (d) Rate of transpiration increases in hot, dry and windy condition. Dry, windy weather provides a favorable condition for evaporation to take place on the surface of leaves.
- 357. (d) Collateral Bundle is a type of vascular bundle in which the phloem and xylem lie on the same radius, with the phloem located towards the periphery of the stem and xylem towards the centre.
- 358. (b) The Planck constant has dimensions of physical action, these are the same as those of angular momentum. In SI units, the Planck constant is expressed in joule seconds (J.S)
- 359. (c) All living organisms are made up of biomolecules which has carbon as an important constituent.
- 360. (b) Polarization is a property of waves that can oscillate with more than one orientation. Electromagnetic waves such as light exhibit polarization, as do some other types of wave, such as gravitational waves.
- 361. (b) In the state of Tamil Nadu the problem of salinity exists not only in coastal areas but also in inlands. In addition various natural factors also affect salinity. Nagapattinam is one of the districts unfit for cultivation due to this reason.
- 362. (c) Natural System of Classification of Plants was proposed by British Botanists George Bentham and Joseph Dalton Hooker. In this system of classification all natural characters of plants both vegetative and reproductive are taken into consideration as the basic of classification.
- (c) Minamata disease is a neurological syndrome caused by severe mercury poisoning.
- 364. (d) Gold is often referred as king of metals.
- 365. (b) Amino acids are the building blocks of proteins and hence are the basic requirement for synthesis of proteins.
- 366. (a) Fermi is the unit of length used to measure nuclear distances. The unit is named after the Italian physicist Enrico Fermi.
- 367. (b) Blowing air through an open pipe will led to no change in pressure and hence the process will be isobaric.

- 368. (d) Christmas factor or factor IX is one of the proteases of the coagulation system.
- 369. (b) Highly concentrated sources of oxygen promote rapid combustion. Fire and explosion hazards exist when concentrated oxidants and fuels are brought into close proximity; however, an ignition event, such as heat or a spark, is needed to trigger combustion. Oxygen itself is not the fuel, but the oxidant.
- 370. (a) The Dumas method in analytical chemistry is a method for the quantitative determination of nitrogen in chemical substances based on a method first described by Jean-Baptiste Dumas in 1826.
- 371. (a) Deoxyribonucleic acid (DNA) is a molecule that encodes the genetic instructions used in the development and functioning of all known living organisms and many viruses. DNA is a nucleic acid; alongside proteins and carbohydrates, nucleic acids compose the three major macromolecules essential for all known forms of life.
- 372. (a) Steroids estrogen and progestin (synthetic progesterone) are used in contrucptive pills. Steroid hormones help control metabolism, inflammation, immune functions, salt and water balance, development of sexual characteristics, and the ability to withstand illness and injury.
- 373. (a) Nematocyst is minute, elongated, or spherical capsule produced exclusively by members of the phylum Cnidaria (e.g., jellyfish, corals, sea anemones). Several such capsules occur on the body surface. Each is produced by a special cell called a cnidoblast and contains a coiled, hollow, usually barbed thread, which quickly turns outward (i.e., is everted) from the capsule upon proper stimulation. The purpose of the thread, which often contains poison, is to ward off enemies or to capture prey.
- 374. (a) Lactobacillus, also called Döderlein's bacillus, is a genus of Gram-positive facultative anaerobic or microaerophilic rod-shaped bacteria.
- 375. (c) Chlorophyll is a green pigment found in cyanobacteria and the chloroplasts of algae and plants. Its name is derived from the Greek words chloros ("green") and phyllon ("leaf"). Chlorophyll is an extremely important biomolecule, critical in photosynthesis, which allows plants to absorb energy from light. It contains magnesium.
- 376. (b) In physics, the kinetic energy of an object is the energy which it possesses due to its motion. It is defined as the work needed to accelerate a body of a given mass from rest to its stated velocity. Having gained this energy during its acceleration, the body maintains this kinetic energy unless its speed changes.
- 377. (c) The ozone layer is a layer in Earth's atmosphere that absorbs most of the Sun's UV radiation. It contains relatively high concentrations of ozone (O<sub>3</sub>), although it is still very small with regard to ordinary oxygen, and

- is less than ten parts per million, the average ozone concentration in Earth's atmosphere being only about 0.6 parts per million. The ozone layer is mainly found in the lower portion of the stratosphere from approximately 20 to 30 kilometres (12 to 19 mi) above Earth, though the thickness varies seasonally and geographically.
- 378. (a) Airlift pumps are often used in deep dirty wells where sand would quickly abrade mechanical parts. (The compressor is on the surface and no mechanical parts are needed in the well). However airlift wells must be much deeper than the water table to allow for submergence. Air is generally pumped at least as deep under the water as the water is to be lifted. (If the water table is 50 ft below, the air should be pumped 100 feet deep).
- 379. (a) The passenger-side mirror on a car is typically a convex mirror. In some countries, these are labeled with the safety warning "Objects in mirror are closer than they appear", to warn the driver of the convex mirror's distorting effects on distance perception. Convex mirrors are preferred in vehicles because they give an upright, though diminished, image. Also they provide a wider field of view as they are curved outwards.
- 380. (b) Blue zone is the hottest part of gas flame.
- 381. (d) Gamma radiation, also known as gamma rays, refers to electromagnetic radiation of extremely high frequency and therefore high energy per photon. Gamma rays are ionizing radiation, and are thus biologically hazardous.
- 382. (a) Ozone layer shields earth from UV radiation -Ionosphere layer allows radio waves to be bounced off and radios to work.
- 383. (d) Bacillus Calmette-Guérin is a vaccine against tuberculosis that is prepared from a strain of the attenuated live bovine tuberculosis bacillus, Mycobacterium bovis, that has lost its virulence in humans. BCG is given to new-borns.
- 384. (b) Greenhouse gases (sometimes abbreviated GHG) in the atmosphere absorbs and emits radiation within the thermal infrared range. This process is the fundamental cause of the greenhouse effect. The primary greenhouse gases in the Earth's atmosphere are water vapour, carbon dioxide, methane, nitrous oxide, and ozone.
- 385. (d) Hydrogen bomb is based on the principle of nuclear fusion. Hydrogen bomb or H-bomb, weapon deriving a large portion of its energy from the nuclear fusion of hydrogen isotopes. The hydrogen bomb functions by the fusion, or joining together, of lighter elements into heavier elements. The end product again weighs less than its components, the difference once more appearing as energy. Because extremely high temperatures are required in order to initiate fusion reactions, the hydrogen bomb is also known as a thermonuclear bomb

- 386. (b) The commonly used safety fuse wire is made up of an alloy of tin and lead. Fuse is a safety device used in any electrical installation, which forms the weakest link between the supply and the load. It is a short length of wire made of lead / tin /alloy of lead and tin / zinc having a low melting point and low ohmic losses. A fuse wire should always have a high resistance and low melting point. High resistance to heat up soon and low melting point to melt away due to the heat produced by high resistance so that the circuit is not damaged.
- 387. (b) When cooled from room temperature liquid water becomes increasingly dense like other substances, but at approximately 4 °C (39 °F), pure water reaches its maximum density. As it is cooled further, it expands to become less dense.
- 388. (b) The linear expansion of a solid rod is independent of the time of heat flow. It is directly dependent on the temperature, length of the rod and material of the rod.
- 389. (b) X-rays are produced as a result of obstruction of cathode rays with metal.
- 390. (c) Aristotle is the father of Biology and Zoology.
- 391. (a) The smallest unit of classification is species. The hierarchy of biological classification's major taxonomic ranks is as follows: species< genus< family < order< class< phylum < kingdom < domain.</p>
- 392. (c) Aerenchyma refers to spaces or air channels in the leaves, stems and roots of some plants, which allows exchange of gases between the shoot and the root. Aerenchyma is widespread in aquatic and wetland plants which must grow in hypoxic soils.
- 393. (b) Night blindness is the first sign of vitamin A deficiency. Night blindness and its worsened condition, xerophthalmia, are markers of vitamin A deficiency, as it can also lead to impaired immune function, cancer, and birth defects.
- 394. (a) Cloves are the aromatic flower buds of a tree in the family Myrtaceae, Syzygium aromaticum. They are native to the Maluku Islands in Indonesia, and are commonly used as a spice.
- 395. (c) Heating gypsum partially dehydrates the mineral by driving off approximately 75% of water contained in its chemical structure. The partially dehydrated mineral is called calcium sulfate hemihydrate or calcined gypsum commonly known to be Plaster of Paris.
- 396. (c) Neutron was discovered by a British Physicist named Sir James Chadwick. In1932, Chadwick showed that the radiation from the element beryllium, caused by the bombardment of alpha particles is actually a stream of electrically neutral particles. He called these particles neutrons. He also studied some other properties of these particles. Neutrons directly emitted from atomic nuclei are termed as fast neutrons.

- 397. (c) Carbonated beverages like soda get their name from the carbon dioxide dissolved in the beverage. Most gases will dissolve in water (which is the main component of soda) but carbon dioxide is particularly good at dissolving and it adds a slightly sour taste to the beverage. It may also be added to make it reminiscent of the carbonation found in fermented beverages like champagns.
- 398. (c) Biogas is a clean unpolluted and cheap source of energy in rural areas. It consists of 55-70% methane which is inflammable. Biogas is produced from cattle dung in a biogas plant commonly known as gobar gas plant through a process called digestion.
- 399. (c) Carbon credit is a permit which allows a country or organization to produce a certain amount of carbon emissions and which can be traded if the full allowance is not used. It is associated with protection of environment.
- 400. (b) A green leaf is green because of the presence of a pigment known as chlorophyll, inside chloroplast.
- 401. (c) Temperature is measured by a thermometer. One of the most common devices for measuring temperature is the glass thermometer. This consists of a glass tube filled with mercury or some other liquid, which acts as the working fluid. Temperature increase causes the fluid to expand, so the temperature can be determined by measuring the volume of the fluid. Such thermometers are usually calibrated so that one can read the temperature simply by observing the level of the fluid in the thermometer.
- 402. (a) At 25° C the pH of pure water is very close to 7. Acids have a pH less than 7 while bases have a pH greater than 7. Because it has a pH of 7, water is considered to be neutral. It is neither an acid nor a base, but is the reference point for acids and bases.
- 403. (c) Distillation is a process of separating the component substances (impurities) from a liquid mixture by selective evaporation and condensation. The end result is pure water.
- 404. (b) H<sub>2</sub>SO<sub>4</sub> is the sulphuric acid which is a highly corrosive strong mineral acid. It cannot be used in food industry as a preservative.
- 405. (d) The deep red colour that is present in tomatoes, pink grapefruit, guava and watermelon is caused by lycopene, a carotenoid.
- 406. (d) Anticoagulants are not present in wasp as it is not a blood sucking insect and hence do not need it.
- 407. (a) Vegetations like tree and other shrubs and plants are effective in absorbing various pollutant gases like nitrogen dioxide, ozone etc. These also absorb particulate matter through their leaves and needles and thereby help to improve air quality.
- 408. (b) When a person cries there is a watery discharge from the nose due to activation of lachrymal fluid through nasal cavity.

- 409. (c) The functions of root hairs is to absorb water and mineral nutrients present in the soil and take this solution up through the roots to the rest of the plant. Root hair cells do not carry out photosynthesis as they do not contain chloroplasts.
- 410. (d) In agriculture, a catch crop is a fast-growing crop that is grown simultaneously with, or between successive plantings of a main crop.
- 411. (d) Carotenoids protect the plant from damage from UV light and this protection is attributed to their antioxidant properties: they are able to absorb the harmful oxidative chemicals produced during photosynthesis, the process whereby plants make energy from sunlight.
- 412. (b) Ethanol is obtained from the agricultural feedstocks through the process of fermentation. It is a renewable source of energy and blended with petrol in different proportions.
- 413. (d) The substance that causes the worst air pollution is carbon monoxide (CO). Carbon monoxide combines with hemoglobin of blood to form carbaminohemoglobin which fails to carry oxygen to body tissues, causing oxygen starvation.
- 414. (a) Boiling occurs only when the vapor pressure of the liquid is equal to the surrounding atmospheric pressure.
- 415. (b) Covalent compounds have low melting and boiling points and not undergo very fast reactions.
- 416. (b) The properties of a mixture are same as that of their components.
- 417. (b) Several units of Vinyl Chloride polymerized to form Poly Vinyl Chloride (PVC).
- 418. (a) Polarized are used to eliminate the glares produced by different light sources. The polaroid glasses significantly attenuate the source of the glare that is the horizontally polarized light and helps in better visibility and contrast.
- 419. (a) Insulators are substances which do not permit the electricity to pass through it due to very high electrical resistance.
- (a) Chromium, nickel are the major components of stainless steel along with iron.
- 421. (d) Uranium obtained from mining contains several isotopes of uranium in different compositions, such as U-234, U-235, and U-238. Through Enrichment of uranium the percentage of fissile uranium (U-235) is increased.
- 422. (c) A refrigerator works on with the help of five basic components: a fluid refrigerant; a compressor, a condenser coil, an evaporator coil and an expansion device. The compressor constricts the refrigerant vapour, raising its pressure, and pushes it into the coils on the outside of the refrigerator. When the hot gas in the coils meets the cooler air temperature of the surroundings, it turns into liquid. In the liquid form at

- high pressure, the refrigerant cools down as it flows into the coils inside the freezer and the fridge. The refrigerant absorbs the heat inside the fridge, cooling down the air. Lastly, the refrigerant evaporates and then flows back to the compressor, where the cycle repeats itself.
- 423. (b) Pyrolysis is a thermo-chemical decomposition of organic material at elevated temperatures in the absence of oxygen (or any halogen). Pyrolysis generally takes place well above atmospheric pressure at temperatures exceeding above 430 °C.
- 424. (c) Light is made up of photons, so it has some particle properties. In the photoelectric effect light hits some material which absorbs it and then ejects incident electrons. The reason that the photoelectric effect is evidence for the particle nature of light has to do with how materials absorb that light energy and then eject it in the form of electrons.
- 425. (d) The heaviest naturally-occurring element is uranium (atomic number 92, atomic weight 238.0289).
- 426. (b) Haptens are small molecules that react with a specific antibody but cannot induce the formation of antibodies unless bound to a carrier protein or other large antigenic molecule. They are incomplete or partial antigens.
- 427. (a) Sulphur dioxide gas exhibits bleaching properties in presence of moisture. It dissolves in water liberating nascent hydrogen. Nascent hydrogen removes oxygen atoms from the coloring matter (reduces coloring matter) and it loses its color.
- 428. (c) Zirconium is a lustrous, grey-white strong transition metal that resembles titanium. Zirconium is mainly used as a refractory and opacifier, although it is used in small amounts as an alloying agent for its strong resistance to corrosion.
- 429. (d) Plant wilting occurs after excessive loss of water by transpiration and lesser absorption. On a hot day, plants transpire heavily and cannot absorb water speedily to keep pace with transpiration loss, even when there is enough water.
- 430. (b) Gypsum is calcium sulphate which is essential to the sustainability of most irrigated soils. Irrigated land eventually leads to sodicity and salinity unless extreme care is taken. It improves sodic (saline) soils by removing sodium from the soil and replacing it with calcium.
- 431. (d) The Electromagnetic spectrum in order of decreasing wavelength: 0.01 nm: X-rays -1 nm; Ultra-violet Rays-O.1 micrometres; Visible Light-Red light: 0.7 micrometres. Violet Light: 0.4 micrometres; Infrared Radiation-0.01 mm; Microwaves -less than 10 cm. usually 1 cm: Radiowaves- Long, Medium and Short Waves: 2 km-10 m; and Very High frequency (VHF) and Ultra High Frequency (UHF): 10 m-1 0 cm.
- (a) Eutrophication is the eco-system response to the addition of artificial or natural substances, such as nitrates

- and phosphates through fertilizers or sewage to an aquatic system. One example is the "bloom" or great increase of phytoplankton in a water body as a response to increased levels of nutrients.
- 433. (d) The wings are modified forelimbs of birds which are the key to bird flight. Each wing composed of three limb bones, the humerus, ulna and radius.
- 434. (b) Entropy and enthalpy together make a new quantity, the Free Energy which, under conditions of constant temperature and pressure, determines the direction of spontaneous change. All spontaneous processes have a negative change in free energy.
- 435. (c) Sandstone can be turned into a metamorphic rock by being either heated up to a point where it undergoes a significant change or subjected to high pressures, or subjected to chemically active fluids, or some combination thereof. A common result of the metamorphosis of sandstone is the creation of quartzite.
- 436. (d) A Sonometer is a device for demonstrating the relationship between the frequency of the sound produced by a plucked string, and the tension, length and mass per unit length of the string. These relationships are usually called Mersenne's laws after Marin Mersenne (1588-1648), who investigated and codified them.
- 437. (b) Polio is a highly infectious disease caused by a virus. Its causative agent, poliovirus, was isolated in 1908 by Karl Landsteiner. The polio virus invades the nervous system, and can cause total paralysis.
- 438. (d) It is generally considered that the Panda belongs to the bear family, though differences persist. Some DNA studies have shown that the giant panda is closer to the bear family while the red panda is indeed closer to the raccoon family.
- 439. (a) The pancreas is a glandular organ in the upper abdomen, but it serves as two glands a digestive exocrine gland and a hormone-producing endocrine gland. Functioning as an exocrine gland, the pancreas produce enzymes to break down the proteins, lipids, carbohydrates, and nucleic acids in food. Functioning as an endocrine gland, the pancreas secretes the hormones insulin and glucagon to control blood sugar levels throughout the day.
- 440. (b) Due to the action of motor cells at the base of the closes. The motor cells are activated by touch of the sensitive hairs present on the surface of touch-me-not plant. Like a number of other plant species, it undergoes changes in leaf orientation termed "sleep" or nyctinastic movement. The foliage closes during darkness and reopens in light.
- 441. (c) The theoretical basis for plant tissue culture was proposed by botanist Gottlieb Haberlandt in 1902 on his experiments on the culture of single cell.

- 442. (d) Beak is technically only the external surface of a bird's mouth. The entire mouth structure of a bird is called the bill. The bill (or rostrum) consists of a bony framework, a vascular layer containing the blood vessels and nerves, a layer of connective tissue, which "glues" the beak to the bones, and the beak, which is the outer sheath covering the jaw bones. The beak is composed of keratin the same tough, insoluble protein found in fingernails, hoofs, antlers and horns.
- 443. (c) External ear is present in Mammals. Many mammals can move the pinna (with the auriculares muscles) in order to focus their hearing in a certain direction in much the same way that they can turn their eyes. Most humans, unlike most other mammals, do not have this ability.
- 444. (c) Archimedes used the principle of buoyancy to find the purity of gold. According to which a body immersed in fluid experiences a buoyant force equal to the weight of the fluid it displaces. With the help of this principle, the density of the golden crown and solid gold was compared by balancing the crown on a scale with a reference piece, this set up is then immersed in water. If the crown is less dense than gold, it will displace more water, and thereby will experience a greater buoyant force than the reference piece.
- 445. (c) The kinetic energy of a non-rotating object of mass m traveling at a speed v is  $\frac{1}{2}mv^2$ . If m and v are increased to twice its magnitude, then K.E=  $\frac{1}{2} \times 2m \times 2v \times 2v = \frac{1}{2}mv^2$  (8) = 8 times kinetic energy.
- 446. (d) The gravitational force is inversely proportional to the square of the distance: If you double the distance between the two bodies, the force of gravity is reduced to one-fourth its original value.
- 447. (d) Stationary wave can occur because the medium is moving in the opposite direction to the wave, or it can arise in a stationary medium as a result of interference between two waves travelling in opposite directions
- 448. (b) Two oxygen atoms can both achieve stable structures by sharing two pairs of electrons joined in a double bond. O=O. Each line represents one pair of shared electrons.
- 449. (d) Helium is used by deep sea divers in their diving tanks as a substitute of nitrogen. The trouble with nitrogen in this situation is that nitrogen is a fairly heavy gas, and is soluble in blood at high pressure. Long term use of nitrogen can cause a strange sense of euphoria, or well being called nitrogen narcosis. This is a bit like being drunk, and makes the diver unable to assess dangers. Divers who work at depth or for long periods use a mixture of 20% Oxygen and 80% Helium. Helium is used for a number of reasons It is light, cheap, and

- does not dissolve in blood. Being inert it cannot be toxic to the diver or corrosive to equipment.
- 450. (c) The atomic number of uranium is 92, and the mass number of the isotope is given as 238. Therefore, it has 92 protons, 92 electrons, and 238 92 = 146 neutrons.
- 451. (d) Auxanometer measures root pressure which is developed in the xylem of the roots. The auxanometer measures plant growth as well as the pressure developed within the xylem cells of roots.
- 452. (c) Cell becomes turgid because of endosmosis. Plant cells need to be turgid (i.e. rigid) to support plant tissues. Plant cells become turgid when the concentration inside the cell is higher than outside. Therefore water moves into the cell by osmosis, and the vacuole swells and pushes against the cell wall. Endosmosis is the movement of water molecules from outside to inside of a cell through osmosis process.
- 453. (c) Imbibition is the absorption of one substance by another, through the uptake of water or similar liquide.
- 454. (b) A physical phenomenon known as osmosis causes water to flow from an area of low solute, high water concentration to an area of high solute, low water concentration, until the two areas have an equal ratio of solute to water. Normally, the solute diffuses toward equilibrium as well; however, all cells are surrounded by a lipid bilayer cell membrane which permits the flow of water in and out of the cell but restricts the flow of solute under many circumstances. As a result, when a cell is placed in a hypotonic solution, water rushes into the membrane, increasing the cell's volume.
- 455. (a) The efficiency of a reversible heat engine is always greater than the efficiency of an irreversible engine operating between same two thermal reservoirs.
- 456. (c) Chemotherapy is the use of medicines or drugs to treat
- 457. (d) Oxygen is the most abundant element, making up about 47% of the earth's mass.
- 458. (c) Since the wavelength of electron is much smaller as compared to the wavelength of visible light; the magnification of electron microscope is higher than optical microscope.
- 459. (a) The word 'amphi' means two, which is used for amphibians for their life activity on land and in water.
- 460. (c) Nitrate is the main form of nitrogen compounds that are present inside water.
- (d) Edward Jenner is often called "the father of immunology".
- 462. (b) Due to presence of phosphate group inside DNA it shows the property of hydrophilicity.
- 463. (a) The cerebellum is a small part of the brain positioned at the back of the head, where it meets the spine, which acts as the body's movement and balance control centre.
- 464. (d) Potash Alum is used to reduce bleeding in minor cuts and abrasions, nose bleeds, and haemorrhoids.

- 465. (a) The phenomenon of total internal reflection takes place only when light transfers from denser to rarer medium.
- 466. (c) Interferon is produced by the body's cells as a defensive response to viruses.
- 467. (b) The first law of thermodynamics is a version of the law of conservation of energy.
- 468. (a) Red rot of sugarcane is a major disease which is caused by concealed fungal ascomycete Colletotrichum falcatum.
- 469. (a) A large numbers of identical plants known as clones are produced through the process of micropropagation.
- (c) Benzene hexachloride (BHC) also known as Gammaxene is an important pesticide.
- 471. (d) Apple is a false fruit in which the edible part is not the ovary but the fleshy thalamus.
- 472. (c) The discovery of the new Heat Shock Protein 90 (HSP90) has the potential for the effective treatment of malaria.
- 473. (c) Antigen-presenting cells (APCs) helps in initiation and orchestration of Antigen specific immune responses. These are mainly present in Lymph nodes, spleen and also in skin.
- 474. (b) Nucleic acid hybridization or DNA hybridization is used to determine the number of DNA sequences that any two organisms have in common and to estimate the percentage of divergence within DNA sequences that are related but not identical.
- 475. (d) Starch is stored in various tissues or specialised plant parts like tubers. Sugasr produced in the green parts like leaves are translocated through phloem and stored in these parts.
- 476. (c) Bacteriophages are viruses that infect and feed on bacterial host.
- 477. (b) The measure of dispersion shows the scatterings of the data. It tells the variation of the data from one another and gives a clear idea about the distribution of the data. Measure of dispersion, is used to describe the variability in a sample or population and generally used in conjunction with a measure of central tendency.
- 478. (c) The soil particles absorb the water from the surroundings through the process of capillary action.
- 479. (c) H<sub>2</sub>SO<sub>4</sub> comprises about 60 per cent of the acid components of acid rains. It is produced by the combustion of coal and oil in power plants, smelters etc.
- 480. (c) LD<sub>50</sub> is the amount of a drug or any test material which causes the death of 50% of a group of test animals under the standard test conditions.
- 481. (b) Tomato, wheat, grass are few examples of herbs.
- (c) Lizards, snakes, crocodiles and tortoises belong to the reptile group.
- 483. (d) Tensiometers are devices that measure soil moisture tension (soil matric water potential)
- 484. (c) The SI unit of force is the newton (symbol N).

- 485. (c) Glass, asbestos, wood, cork, cotton wool and air are some examples of Bad conductor.
- 486. (c) Many oxidation-reduction reactions are as common and familiar as fire, the rusting and dissolution of metals, the browning of fruit, and respiration and photosynthesis-basic life functions.
- 487. (c) A Cation is an ion or group of ions possessing a positive charge and having the natural ability to move toward the negative electrode in electrolysis. Sulphate ion doesn't in this group.
- 488. (d) The main components of photochemical smog are nitrogen oxides, Volatile Organic Compounds (VOCs), tropospheric ozone, and PAN (peroxyacytyl nitrate). Chlorine oxide is not a component of Smog.
- 489. (c) An axillary bud is a sprout that develops in the axil of a plant, which is the angle formed by the upper side of the stem and an outgrowing leaf or branch.
- 490. (b) The basic function of xylem is to transport water from roots to shoots and leaves, but it also transports some nutrients.
- (b) Whittaker proposed an elaborate five kingdom classification - Monera, Protista, Fungi, Plantae and Animalia.
- 492. (b) Newton's first law of motion: An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force. This law is also called Galileo's law of falling bodies.
- 493. (a) A thermocouple is a device used extensively for measuring temperature. It is best suited for measuring the temperature inside metallurgical furnace.
- 494. (b) The acid produced by ant's bite is called formic acid.
- (c) Solid sol is a type of colloid. Examples of Solid sol are Pumice stone, Foam rubber etc.
- (a) Itai-Itai disease was caused by cadmium in the sea area of japan.
- 497. (a) Cows are known as "ruminants" because the largest pouch of the stomach is called the rumen.
- 498. (a) Red blood cells (Hemoglobin) transports oxygen to all the parts of the body and ultimately to all the cells.
- 499. (a) The primary function of the kidney is to remove nitrogenous wastes (mainly urea) from the body.
- (c) Light does travel around corners a little. This effect is called diffraction.
- 501. (d) It is due to the phenomena of 'total internal reflection.
- 502. (d) Weak bonds are those forces of attraction that, in biological situations, do not take a large amount of energy to break. For example, hydrogen bonds are broken by energies in the order of 4 5 kcal/mol.
- 503. (d) Above reaction is the example of neutralization reaction. It happens when an acid and a base react to form water and a salt and involves the combination of H+ ions and OH– ions to generate water.

- 504. (a) The Bishnois are considered as the first environmentalists of India. It was started in 1485AD by Saint Guru Jambheshwar in the Thar Desert of Rajasthan, India. It was started against cutting of trees.
- 505. (b) Cinnamon is obtained from barks of the plants.
- 506. (a) The body manufactures insulin in the pancreas, and the hormone is secreted by its beta cells, primarily in response to glucose.
- 507. (d) The impure blood from the body parts enters the heart from superior and inferior Vene cava.
- 508. (b) The light travels straight as long as it is in the water, but if it emerges obliquely from the water into the air it is bent downward toward the surface. This bending is known as refraction, and this is the main cause that water tank appear shallower when viewed from the top.
- 509. (b) In light, yellow is a secondary color, and is made by combining Red and Green.
- 510. (b) An endothermic reaction is any chemical reaction that absorbs heat from its environment.
- (b) Besides Bauxite, Cryollite (Na<sub>3</sub>AlF<sub>6</sub>) is also the ore of Aluminium.
- 512. (a) Bhopal gas tragedy occurred on the night of 2–3 December 1984 at the Union Carbide India Limited (UCIL) pesticide plant. Over 500,000 people were exposed to methyl isocyanate (MIC) gas and other chemicals.
- 513. (b) Diazepam is a benzodiazepine drug. It is used to treat anxiety disorders, alcohol withdrawal symptoms and sometimes also to treat seizures in combination with other medications.
- 514. (a) Ficus benghalensis is the botanical name of Indian banyan. The tree is a native to the Indian subcontinent.
- 515. (b) Equus burchellii is one of the subspecies of the zebra. It is named after the British explorer and naturalist William John Burchell.
- 516. (c) Atomic number of copper is 27, while that of Zn is 30. The atomic number of Cr, Mn and Fe is 24, 25 and 26 respectively.
- (d) Photovoltaics cells or solar cells are used to convert solar energy into electrical energy.
- 518. (d) During enteric fermentation as part of digestion of lingo cellulosic materials in ruminant animals, methane gas is produced.
- 519. (b) Power is defined as the rate at which work is done.
- 520. (d) Young's modulus is a measure of stiffness of solid materials. In other words, it is the resistance to elastic deformation under load. It is represented as, Y= Stress/ Strain. Its SI unit is Pascal.
- (c) Bile is stored in Gall bladder after being secreted from Liver.
- 522. (c) Others are connective Tissue but Cardic muscle is an involuntary, striated muscle that is found in the walls of the heart.
- 523. (c) Normally, human heart beats 72 times a minute.

- 524. (c) Muscle fatigue occurs due to accumulation of Lactic acid which is an organic compound formed when there is anaerobic energy production at high rates.
- 525. (a) The inexhaustible source of energy of stars is due to conversion of hydrogen to helium.
- 526. (d) Gamma Rays are penetrating electromagnetic rays which has the highest frequency.
- 527. (d) Clouds are made of tiny droplets of liquid or frozen water. Clouds act like blankets which prevent heat energy stored in the air and soil from leaving the Earth in the form of infrared radiation.
- 528. (c) The subatomic particle that does not have any electric charge is Neutron. It is neither positive nor negative.
- 529. (d) Argon is a gas used to fill incandescent light bulbs.
- 530. (b) Tear gas known as Lachrymator has chlorine gas one of its major component that cause severe eye, respiratory and skin irritation, pain, bleeding and even blindness.
- 531. (a) Brine is a solution of excess salt and water. The high salt content in brine prevents the growth of Bacteria and thus helps to preserve the food for a long time.
- (b) Automobile Battery primarily causes lead pollution which is harmful for environment.
- 533. (a) Montreal protocol is an international treaty signed on 14 september 1987 to protect the ozone layer.
- 534. (b) Super sonic jets cause thining of O<sub>3</sub> layer which protects earth from harmful sun radiation.
- 535. (a) Biogas is formed through Fermentation in which anaerobic digestion takes place inside a closed system.
- 536. (c) Quenching is a process of cooling a material at a rapid rate. In ferrous alloys, this will often produce a harder metal, while non-ferrous alloys will usually become softer than normal.
- (c) Ethanol which is a viable bio-fuel can be obtained from Sugarcane.
- 538. (b) Distant objects can be seen with help of Telescope. It is an optical instrument that aids in the observation of remote objects by collecting electromagnetic radiation. (such as visible light).
- 539. (c) Orientation/Steric factor. According to the collision model, a chemical reaction can occur only when the reactant molecules, atoms, or ions collide with more than a certain amount of kinetic energy and in the proper orientation.
- 540. (d) Brown Ring test is used for the detection of ionic nitrates.
- 541. (d) Calcium is an important component of blood clotting cascade. If normal amounts of calcium, platelets and tissue factors are present, Prothrombin is converted to Thrombin. Thrombin helps in blood coagulation or thrombus formation.
- 542. (b) Analytical Engine was the world's first general purpose computer which was used to perform analytical operations.

- 543. (d) The cerebrum is the largest part of the human brain, making up about two third of the brain's mass.
- 544. (a) Pancreas is a vital part of digestive system and a critical controller of Insulin.
- 545. (c) Ascorbic Acid is not related to vitamin B complex group. Vitamin B complex group contains 8 water soluble. Vitamins–Vitamin B1, B2, B3, B6, B12, folate, biotin and pantothenic acid.
- 546. (b) A virus is made up of a core of genetic material either DNA or RNA. Capsid is made up of protein.
- 547. (a) Sunflower is a Large plant and is not a shrub.
- 548. (c) Biopsy, is a medical procedure during which a small sample of tissue is removed from a part of the body.
- 549. (a) A Cryogenic rocket engine is a rocket engine that uses cryogenic fuel or oxidizer, its fuel are liquefied gases and stored at very low temperature
- 550. (b) During photosynthesis light energy is converted into chemical energy. The light energy is intercepted by chlorophyll, then some of the light energy is converted to chemical energy. During the process; a phosphate is added to a molecule to cause the formation of ATP.
- 551. (b) Cohesive force between molecules is the reason of surface tension of liquid. Cohesive force is the action or property of like molecules sticking together.
- 552. (b) Reduction is the process of gain of electrons.
- 553. (d) Solder is an alloy made up of Tin and lead. Solder is used to create a permanent bond between metal work pieces.
- 554. (b) Carbon dioxide is a gas which leads to Global warming. Global warming is the rise in the average temperature of the Earth's climate system.
- 555. (d) Ascorbic Acid is a natural water-soluble vitamin. Vitamin C is also known as ascorbic acid. It is used to prevent or treat low levels of vitamin C in people who do not get enough of the vitamin from their diets. Ascorbic acid is a potent reducing and antioxidant agent that functions in fighting bacterial infections, in detoxifying reactions, and in the formation of collagen in fibrous tissue, teeth, bones, connective tissue, skin, and capillaries.
- 556. (a) The explosion of crackers is an example of Combustion. Combustion is a chemical process where any fuel has a reaction with air (oxidant) to produce heat energy. Combustion usually occurs when a hydrocarbon reacts with oxygen to produce carbon dioxide and water.
- 557. (d) The appendix is a finger-like, blind-ended tube connected to the cecum, from which it develops in the embryo. The appendix looks like a narrow tube that joins to the end of the colon. It's thought to have come from our herbivorous ancestors where it played a role in digesting tough plant-based tood. Appendix is a vestigial organ.
- 558. (d) Ethanoic acid commonly called as acetic acid is the second members of the aliphatic monocarboxylic acids. It is mainly found in all kinds of citrus fruits. The structure of ethanoic acid is shown below.

Its dilute solution in water (5-8%) is known as vinegar, which is used for preserving food-sausage, pickles etc.

- 559. (a) In the human adult, the bone marrow produces all of the red blood cells, 60-70 % of the white cells (i.e., the granulocytes), and all of the platelets. The lymphatic tissues, particularly the thymus, the spleen, and the lymph nodes, produce the lymphocytes (comprising 20-30 % of the white cells).
- 560. (d) The cerebellum (back of brain) is located at the back of the head. Its function is to coordinate voluntary muscle movements and to maintain posture, balance, and equilibrium.
- 561. (d) Wind turbines convert the kinetic energy into mechanical power. This mechanical power can be used for specific tasks or a generator can convert this mechanical power into electricity to power homes, businesses, schools etc.
- 562. (b) By 1956, Mexico became self-sufficient in wheat production due to cultivation of semi-dwarf wheat. This led to the variety's introduction in the mid-1960s in India and Pakistan, where production doubled as a result. Later, similar strains for rice and other cereals were developed in Asia.

## 563. (b) Calorific Values of Different Fuels

Fuel	Calorific Value (kJ/kg
Cow dung cake	6000-8000
Wood	17000-22000
Coal	25000-33000
Petrol	45000
Kerosene	45000
Diesel	45000
Methane	50000
CNG	50000
LPG	55000
Biogas	35000-40000
Hydrogen	150000

- 564. (b) The human body uses carbohydrates in the form of glucose. Glucose can be converted to glycogen, a polysaccharide similar to starch, which is stored in the liver and the muscles and is a readily available source of energy for the body.
- 565. (b) SATAT, the initiative is aimed at providing a Sustainable Alternative Towards Affordable Transportation as a developmental effort that would benefit both vehicle-users as well as farmers and entrepreneurs. This initiative holds great promise for efficient municipal solid waste management and in tackling the problem of polluted urban air due to farm stubble-burning and carbon emissions. Use of compressed bio gas will also help bring down dependency on crude oil imports and in realising the Prime Minister's vision of enhancing farmers' income, rural employment and entrepreneurship.

- 566. (d) A septum is a wall, dividing a cavity or structure into smaller ones. The role of the septum is to separate the right and the left side of the heart, thus preventing deoxygenated and oxygenated blood from mixing.
- 567. (b) Lysosomes are the cellular organelles that contain digestive enzymes that break down waste materials, foreign materials and foreign particles that entered cell. It helps the cell to process its nutrients and is responsible for destroying the cell after it has died. Lysosomes are also called suicidal bags of the cell because they burst to eat up the dead cell, leaving space for new cells to come.
- 568. (c) A person who can accept a blood transfusion from any blood type is called a universal recipient. Universal recipients have type AB blood and can receive a blood transfusion from a person with any blood type.
- 569. (a) Enzymes are protein molecules in cells which work as biological catalysts. Enzymes speed up chemical reactions in the body, but do not get used up in the process, therefore can be used over and over again.
- 570. (c) Nichrome is a non-magnetic alloy of nickel and chromium. It has very low resistivity and a very high boiling point (~1400 °C) which makes nichrome a very good conductor of electricity and ideal material for making wires and standard resistance coil.
- 571. (a) Diabetes is a metabolic disease that causes high blood sugar. The hormone insulin moves sugar from the blood into your cells to be stored or used for energy. With diabetes, your body either doesn't make enough insulin or can't effectively use the insulin it does make.
- 572. (b) Fertilization happens when a sperm cell successfully meets an egg cell in the fallopian tube. Once fertilization takes place, this newly fertilized cell is called a zygote. From here, the zygote will move down the fallopian tube and into the uterus.
- 573. (d) The nervous system transmits signals between the brain and the rest of the body, including internal organs. In this way, the nervous system's activity controls the ability to move, breathe, see, think, and more.
- 574. (c) The Tyndall effect is the scattering of light as a light beam passes through a colloid. The individual suspension particles scatter and reflect light, making the beam visible.
- 575. (a) The nephron is the microscopic structural and functional unit of the kidney. It is composed of a renal corpuscle and a renal tubule. The renal corpuscle consists of a tuft of capillaries called a glomerulus and an encompassing Bowman's capsule.
- 576. (a) The SI unit of audio frequency is the hertz (Hz). It is the property of sound that most determines pitch. The generally accepted standard range of audible frequencies for humans is 20 to 20,000 Hz. The range of frequencies individuals hear is greatly influenced by environmental factors.
- 577. (a) Shadows are made by blocking light. Light rays travel from a source in straight lines. If an opaque (solid) object gets in the way, it stops light rays from traveling through it.
- 578. (c) Producer gas is the product obtained when coal or coke is burnt with air deficiency and with a controlled

- amount of moisture. Producer gas is a gas mixture containing carbon monoxide hydrogen, carbon dioxide and nitrogen.
- 579. (c) A hygrometer is an instrument used to measure the amount of humidity and water vapour in the atmosphere, in soil, or in confined spaces. Humidity measurement instruments usually rely on measurements of some other quantity such as temperature, pressure, mass, a mechanical or electrical change in a substance as moisture is absorbed. By calibration and calculation, these measured quantities can lead to a measurement of humidity.
- 580. (c) Infrasound is sound below the level of human hearing. The frequency of a sound is measured in Hertz (Hz) and the infrasonic range is generally considered to be between 1 and 20 Hz.
- 581. (d) Electromagnetic waves are formed when an electric field comes in contact with a magnetic field. They are hence known as 'electromagnetic' waves. The EM waves travel with a constant velocity of 3.00 x 108 ms-1 in vacuum. They are deflected neither by the electric field, nor by the magnetic field. An electromagnetic wave can travel through anything be it air, a solid material or vacuum.
- 582. (b) Ecology is a branch of biology that studies the interactions among organisms and their biophysical environment, which includes both biotic and abiotic components. Topics of interest include the biodiversity, distribution, biomass, and populations of organisms, as well as cooperation and competition within and between species.
- 583. (b) Gills take oxygen out of the water and let water carry away carbon dioxide. Fish force water through their gills, where it flows past lots of tiny blood vessels. Oxygen seeps through the walls of those vessels into the blood, and carbon dioxide seeps out.
- 584. (c) Urochrome is a yellow pigment that comes from the processing of dead blood cells in the liver. The remaining bilirubin is extracted by the kidneys, where converted it gives urine that familiar yellow color. So Urochrome and the degradation products of bilirubin and urobilin, make urine yellow.
- 585. (c) Femur is also known as thighbone, upper bone of the leg or hind leg. The femur is the only bone in the thigh and the longest bone in the body. It acts as the site of origin and attachment of many muscles and ligaments, and can be divided into three parts; proximal, shaft and distal.
- 586. (b) "Mission Mangal", a new Indian Hindi-language film, tells the dramatic true story of the women behind India's first mission to Mars. The movie opens with lead actress VidyaBalan, who plays fictional character Tara Shinde, project director of the Mars Orbiter Mission.
  - "Mission Mangal" was released in India on August 15, 2019, to celebrate the 50th anniversary of the Indian Space Research Organization.
- 587. (d) Dry ice is the solid form of carbon dioxide. It is used primarily as a cooling agent. It is also used to preserved dead bodies.
- 588. (b) Prime Minister Narendra Modi inaugurated the Kartarpur corridor, flagging off the first batch of over 500 Indian

- pilgrims, including former Prime Minister Manmohan Singh and Union Minister Harsimrat Kaur Badal. The corridor links Gurdwara Darbar Sahib in Pakistan, the final resting place of Sikhism founder Guru Nanak Dev, to Dera Baba Nanak shrine in this Punjab district. India had signed an agreement with the neighbouring nation on October 24, 2019 on the modalities for operationalisation of the corridor at 'Zero Point' of the international boundary at Dera Baba Nanak.
- 589. (d) Red worms do not have teeth. They have a structure called 'gizzard' which helps them in grinding their food. A red worm eats food equal to its weight every day. Red worms do not survive in too hot or too cold conditions.
- 590. (a) Cynology is the study of matters related to canines or domestic dogs. In English it may be a term sometimes used to denote serious zoological approach to the study of dogs as well as by writers on canine subjects, dog breeders and trainers and enthusiasts who informally study the dog.
- 591. (d) James Chadwick was awarded the Hughes Medal of the Royal Society in 1932, and subsequently the Nobel Prize for Physics in 1935. In 1932, Chadwick made a fundamental discovery in the domain of nuclear science: he proved the existence of neutrons – elementary particles devoid of any electrical charge. For this epoch-making discovery he was awarded t the Nobel Prize for Physics in 1935.
- 592. (d) Silver fiber revolution is associated with Cotton. Cotton mainly found in Gujarat in India. Silver Revolution is associated with egg.
- 593. (b) Cilia, short eyelash like filament that are numerous on tissue cells of most animals and provides the means for locomotion of protozoans of the phylum Ciliophora. A cilium, like a flagellum, is composed of a central core (the axoneme), which contains two central microtubules that are surrounded by an outer ring of nine pairs of microtubules.
- 594. (d) Methane explosions occur in mines when a buildup of methane gas, a by-product of coal, comes into contact with a heat source, and there is not enough air to dilute the gas to levels below its explosion point, said Yi Luo, an associate professor of mining engineering at West Virginia Univers.
- 595. (c) Dr. Hiralal Chaudhuri was an Indian Bengali fisheries scientist. He was the father of induced breeding of the carp. The Blue revolution in India was developed on the basis of seed production technology through Hypophysation by him.
- 596. (b) Bryology is the branch of botany concerned with the scientific study of bryophytes (mosses, liverworts, and hornworts). Bryologists are people who have an active interest in observing, recording, classifying or researching bryophytes.
- 597. (d) Space agencies of India and France signed an agreement for cooperation for the former's first human space mission, Gaganyaan, a move that will enable Indian flight physicians to train at French facilities.
- 598. (c) Thallophyta consists of plants that do not have a well-differentiated body design. Thallophyta is a division of the plant kingdom including primitive forms of plant life showing a simple plant body including unicellular to large algae, fungi, lichens.

- 599. (d) Tin is a chemical element with the symbol Sn and atomic number 50. Tin is a silvery-colored metal that characteristically has a faint yellow hue. Tin is soft enough to be cut with little force and a bar of tin can be bent by hand with little effort.
- 600. (c) The approximate speed of sound in distilled water at 25°C (77°F) is 1498 m/s.
- 601. (d) The umbilical cord is a flexible, tube-like structure that, during pregnancy, connects the fetus to the mother. The umbilical cord contains three blood vessels: two arteries and one vein. The two arteries transport waste from the baby to the placenta and the vein carries oxygen and nutrients from the placenta.
- 602. (c) For a wave, wavelength divided by the time period is equal to wave velocity. Wavelength is the distance between any two nearest particles of the medium, vibrating in the same phase. Wavelength is the distance between any two nearest particles of the medium, vibrating in the same phase.
- 603. (b) Autotrophic organisms are that prepare their own food. Carbon and energy requirements of autotrophic organisms are fulfilled by photosynthesis. It is a process in which autotrophic organisms utilize carbon dioxide and water in the presence of sunlight and chlorophyll to form carbohydrates, the energy source. Green plants, algae and a few photosynthetic bacteria are examples of autotrophs.
- 604. (b) Viscose fibre is obtained from cellulose. Viscose is made from natural cellulose like tree wood pulp, beech, pine, and eucalyptus. It is also obtained from bamboo. After the processing of viscose, it becomes semi-synthetic by the use of chemicals like sodium hydroxide and carbon disulfide.
- 605. (b) Lymph is a light clear fluid made up of white blood cells that attack harmful bacteria in the blood. The light yellow fluid found in the intercellular spaces between different tissues and cells is called lymph.
- 606. (b) Photosynthesis is the process by which the green plants make their own food in the form of glucose and other energy rich compounds. It involves the conversion of carbon dioxide, water and minerals into sugar and oxygen using sunlight. During the light reaction photosynthesis, oxygen is released.
- 607. (b) The relief features, parent material, climate, vegetation, and other life-forms, as well as time apart from human activities, are the major factors responsible for the formation of soil.
- 608. (a) The most common cause of rickets is a lack of vitamin D or calcium in a child's diet. Night blindness is caused by Vitamin A deficiency and the animal liver is the store house for Vitamin A.
- 609. (a) Varicose veins are enlarged, swollen, and twisting veins, often appearing blue or dark purple. They happen when faulty valves in the veins allow blood to flow in the wrong direction or to pool. More than 23 percent of all adults are thought to be affected by varicose veins
- 610. (d) Dragon is the privately developed spacecraft built by the American corporation SpaceX for NASA and the first private spacecraft to carry astronauts to orbit.

- Dragon is the spacecraft developed by SpaceX for NASA's manned mission to International Space Station.
- 611. (d) Artemis 2, a test flight that will send astronauts aboard Orion around the moon and back, will launch around May 2024, compared to the previous goal of September 2023; and Artemis 3, the first crewed lunar landing mission of this program, will launch "no earlier than 2025.
- 612. (b) The Lyrids are active each year from about April 16 to 25. No matter where you are on Earth, the best time to watch is typically between midnight and dawn.
- 613. (b) Kala-Azar is a slow progressing indigenous disease caused by a protozoan parasite of the genus Leishmania. In India Leishmania donovani is the only parasite that causes this disease.
- 614. (d) Explanation: The speed of light in vacuum, commonly denoted c, is a universal physical constant that is important in many areas of physics. Its exact value is defined as 299792.458 kilometre per second.
- 615. (d) Explanation: Amphibians have three-chambered heart, while reptiles have incomplete four-chambered heart (except crocodiles). Crocodiles, birds and mammals have complete, four-chambered hearts.
- 616. (c) Explanation: Ferromagnetism is a kind of magnetism that is associated with iron, cobalt, nickel, and some alloys or compounds containing one or more of these elements. It also occurs in gadolinium and a few other rare-earth elements.
- 617. (c) Explanation: Nitrate esters are organic nitric acid compounds that can contain enormous explosive force.
- 618. (d) Explanation: Joule is the basic energy unit of the metric system, or in a later more comprehensive formulation, the International System of Units (SI). Energy is defined via work, so the SI unit of energy is the same as the unit of work - the joule, named in honour of James Prescott Joule.
- 619. (a) Explanation: The tesla (symbol: T) is a derived unit of the magnetic B-field strength (also, magnetic flux density) in the International System of Units.

  One tesla is equal to one weber per square metre. The unit was announced during the General Conference on Weights and Measures in 1960 and is named[1] in honour of Nikola Tesla, upon the proposal of the Slovenian electrical engineer France Av?in.
- 620. (d) Explanation: Vaisakhi, also pronounced Baisakhi, marks the first day of the month of Vaisakha and is usually celebrated annually on 13 or 14 April as the solar new year. It is additionally a spring harvest festival in the Punjab.
- 621. (a) Explanation: Pinus is a gymnosperm. Pinus is a tall tree, looks conical in appearance and forms dense evergreen forest in the North temperate and sub-alpine regions of the world. They mostly grow in high altitudes (ranging from 1,200 to 3,000 metres).
- 622. (a) Explanation: Epidemiology is the study and analysis of the distribution, patterns and determinants of health and disease conditions in defined populations. It is a cornerstone of public health, and shapes policy decisions and evidence-based practice by identifying risk factors for disease and targets for preventive healthcare.

- 623. (d) Atoms are made up of a massive, central nucleus surrounded by a swarm of fast-moving electrons. An atomic nucleus is so smaller than an atom. The difference in size by realising that if a cricket ball represents a nucleus, then the radius of atom would be about 5 km.
- 624. (b) Each Celsius degree equals 5/9ths of a Fahrenheit degree. Each Fahrenheit degree equals 9/5ths of a Celsius degree. So, 30 × 9/5 = 54 degree Fahrenheit. Celsius scale, or centigrade scale, is a temperature scale that is based on the freezing point of water at 0°C and the boiling point of water at 100°C. Fahrenheit scale is a temperature scale that is based on the freezing point of water at 32°F and the boiling point of water at 212°F.
- 625. (b) Femto (symbol f) is a unit prefix in the metric system denoting a factor of 10?15.. The femtometre (American spelling femtometer) symbol derived from the Danish and Norwegian word femten 'fifteen', lit.?'unit of measurement' is an SI unit of length equal to 10?15 metres, which means a quadrillionth of one metre. This distance used to be called a fermi and was so named in honour of Italian-American physicist Enrico Fermi, as it is a typical length-scale of nuclear physics.
- 626. (b) Watt (symbol: W) is a unit of power or radiant flux.

  Torr is a non-SI unit of pressure defined as 1/760 of an atmosphere. It was named after Evangelista Torricelli, an Italian physicist and mathematician who discovered the principle of the barometer in 1644.

  Newton (symbol: N) is the International System of Units (SI) derived unit of force.

  The joule (symbol J) is the SI unit of energy-a measure of the capacity to do work or generate heat.
- 627. (d) The oil drop experiment was performed by Robert A.

  Millikan and Harvey Fletcher in 1909 to measure the elementary electric charge (the charge of the electron).

  The experiment took place in the Ryerson Physical Laboratory at the University of Chicago.] Millikan received the Nobel Prize in Physics in 1923. They suspended tiny charged droplets of oil between two metal electrodes by balancing downward gravitational force with upward drag and electric forces.
- 628. (d) Virus, the infectious agent of small size and simple composition that can multiply only in living cells of animals, plants, or bacteria. Polio or poliomyelitis is a disabling and life-threatening disease caused by the poliovirus. The Poliovirus is very contagious and spreads through person-to-person contact and can infect a person's spinal cord, causing paralysis (can't move parts of the body).
- 629. (c) Einsteinium is a synthetic element with the symbol Es and atomic number 99. Discovered in 1952 by Albert Ghiorso and colleagues. It belongs to Actinides Group with Melting point 860°C, 1580°F, 1133 K. It is present in 7th Period of Periodic table.
- 630. (c) Conjunctivitis means 'inflammation of the conjunctiva', and the commonest cause is infection by viruses or bacteria. Conjunctivitis can also be due to chemical irritants, traditional eye remedies or allergy. It is usual for both eyes to be affected in infectious cases.