

# Railway Recruitment Board

## Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	Junior Engineer 27th Aug Shift 1 Actual
<b>Subject Name:</b>	Junior Engineer
<b>Creation Date:</b>	2015-08-18 11:48:48.0
<b>Cut Off:</b>	0
<b>Duration:</b>	120
<b>Number of Questions:</b>	150
<b>Total Marks:</b>	150.0

## Junior Engineer

Group Number :	1
Group Id :	4
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	150.0

## Junior Engineer

Section Id :	4
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	150.0

Sub-Section Number:	1
Sub-Section Id:	4
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 601 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33**

Control volume refers to

## Options :

1. ✓ A fixed region in space
2. ✗ A specified mass

- 3. ✘ An isolated system
- 4. ✘ A reversible process only

Question Number : 2 Question Id : 602 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

All of the following are intensive properties EXCEPT

Options :

- 1. ✔ Mass
- 2. ✘ Density
- 3. ✘ Pressure
- 4. ✘ Temperature

Question Number : 3 Question Id : 603 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Fourier's law of heat conduction gives the heat flow for

Options :

- 1. ✘ Irregular surfaces
- 2. ✘ Non-uniform temperature surfaces
- 3. ✔ One dimensional cases only
- 4. ✘ Two dimensional cases only

Question Number : 4 Question Id : 604 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Absorptivity of a body is equal to its emissivity

Options :

- 1. ✘ For a polished body
- 2. ✔ Under thermal equilibrium
- 3. ✘ At one particular temperature
- 4. ✘ At shorter wave lengths

Question Number : 5 Question Id : 605 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A two stroke engine can be identified by

Options :

- 1. ✘ Cooling system
- 2. ✘ Lubrication system

3. ✓ Absence of valves

4. ✗ Piston size

Question Number : 6 Question Id : 606 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A four stroke, four cylinder SI engine has a swept volume of 450 CC and compression ratio is 8. The clearance volume of each cylinder is equal to

Options :

1. ✗ 48 CC

2. ✗ 55 CC

3. ✓ 65 CC

4. ✗ 70 CC

Question Number : 7 Question Id : 607 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Piston rings are usually made of

Options :

1. ✓ Cast iron

2. ✗ Aluminium

3. ✗ Babbitt

4. ✗ Carbon steel

Question Number : 8 Question Id : 608 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In submerged arc welding, an arc is produced between a

Options :

1. ✗ Carbon electrode and the work

2. ✗ Metal electrode and the work

3. ✓ Bare metal electrode and the work

4. ✗ Two tungsten electrodes and the work

Question Number : 9 Question Id : 609 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Weld spatter is

Options :

1. ✘ A flux
2. ✘ A filler material used in gas welding
3. ✘ A filler material used in soldering
4. ✔ A welding defect

Question Number : 10 Question Id : 610 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Investment casting uses pattern made of

Options :

1. ✘ Metal
2. ✘ Wood
3. ✘ Plastic
4. ✔ Wax

Question Number : 11 Question Id : 611 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Slag inclusion in casting is a

Options :

1. ✘ Internal defect
2. ✘ Moulding defect
3. ✔ Surface defect
4. ✘ Superficial defect

Question Number : 12 Question Id : 612 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Knurling is an operation

Options :

1. ✘ of cutting smooth collars
2. ✘ of under cutting
3. ✘ done without use of coolant
4. ✔ of generally roughing the surface for hand grip

Question Number : 13 Question Id : 613 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The process in which the edge of the sheet is folded over itself to increase the stiffness of the part, is called

Options :

1. ✘ Dimpling
2. ✔ Hemming
3. ✘ Spinning
4. ✘ Peen forming

Question Number : 14 Question Id : 614 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The usual value of the helix angle of a drill is

Options :

1. ✘  $20^\circ$
2. ✔  $30^\circ$
3. ✘  $45^\circ$
4. ✘  $60^\circ$

Question Number : 15 Question Id : 615 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Effective resistance of two wires when connected in series and in parallel are 25 ohms and 6 ohms respectively. The resistances of two wires is

Options :

1. ✔ 10 ohms and 15 ohms
2. ✘ 20 ohms and 30 ohms
3. ✘ 5 ohms and 10 ohms
4. ✘ 10 ohms and 20 ohms

Question Number : 16 Question Id : 616 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A closed path made by several branches of network is known as

Options :

1. ✘ branch
2. ✔ loop
3. ✘ circuit

4. ✘ junction

4. ✘

Question Number : 17 Question Id : 617 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Brushes of DC machines are usually made up of

Options :

1. ✔ carbon

2. ✘ mild steel

3. ✘ cast iron

4. ✘ aluminium

Question Number : 18 Question Id : 618 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Small DC motors having upto 5 H.P. usually have

Options :

1. ✔ 2 poles

2. ✘ 4 poles

3. ✘ 6 poles

4. ✘ 8 poles

Question Number : 19 Question Id : 619 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Humming sound produced in a transformer is usually due to

Options :

1. ✘ load fluctuations

2. ✘ oil used in the transformer

3. ✔ magnetostriction

4. ✘ mechanical vibrations

Question Number : 20 Question Id : 620 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a widely used insulating and cooling transformer liquid?

Options :

1. ✔ mineral oil

2. ✘ water

3. ✘ heavy water

4. ✘ mercury

Question Number : 21 Question Id : 621 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The difference between synchronous speed and actual speed of a motor is called

Options :

1. ✘ lag

2. ✘ regulation

3. ✔ slip

4. ✘ backlash

Question Number : 22 Question Id : 622 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following motor is self starting?

Options :

1. ✘ Split motor

2. ✔ Shaded pole motor

3. ✘ Reluctance motor

4. ✘ Hysterisis motor

Question Number : 23 Question Id : 623 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Water hammer pressure is relieved by

Options :

1. ✘ penstock

2. ✘ draft tube

3. ✘ turbine

4. ✔ surge tank

Question Number : 24 Question Id : 624 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

TIG Welding stands for

Options :

1. ✘ Temperature Insulated Gas Welding

- 2.  Tungsten Inert Gas Welding
- 3.  Thermally Induced Gas Welding
- 4.  Tungsten Insulated Gas Welding

Question Number : 25 Question Id : 625 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The type of modulation used in the T.V picture transmission is

Options :

- 1.  amplitude modulation
- 2.  phase modulation
- 3.  frequency modulation
- 4.  modulation is not needed

Question Number : 26 Question Id : 626 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The process of extracting the signal from the modulated wave is called

Options :

- 1.  modulation
- 2.  detection
- 3.  amplification
- 4.  resonance

Question Number : 27 Question Id : 627 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An OR gate has 4 inputs. One input is high and the other three are low. The output

Options :

- 1.  is high
- 2.  is low
- 3.  is alternately high and low
- 4.  may be high or low depending on inputs

Question Number : 28 Question Id : 628 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Decimal 43 in hexadecimal is

Options :



1.  2B
2.  B2
3.  2C
4.  C2

Question Number : 29 Question Id : 629 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A JFET is

Options :

1.  a current controlled device
2.  a low input resistance
3.  a voltage controlled device
4.  is always forward biased

Question Number : 30 Question Id : 630 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which type of gain is achieved using CB configuration

Options :

1.  current
2.  voltage
3.  resistance
4.  power

Question Number : 31 Question Id : 631 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In a vacuum diode, emission of electrons happens due to

Options :

1.  electric field
2.  magnetic field
3.  heating
4.  electron bombardment

Question Number : 32 Question Id : 632 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following cannot actually move?

Options :

1. ✘ free electrons
2. ✔ ions
3. ✘ holes
4. ✘ majority carriers

Question Number : 33 Question Id : 633 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The mean value of half wave rectified sine wave is

Options :

1. ✘ 0.707 I
2. ✘ 0.637 I
3. ✘ 0.5 I
4. ✔ 0.318 I

Question Number : 34 Question Id : 634 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A silicon controlled rectifier is a

Options :

1. ✘ Unijunction device
2. ✘ Device with two junctions
3. ✔ Device with three junctions
4. ✘ Device with four junctions

Question Number : 35 Question Id : 635 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The unit of elastic modulus is the same as those of

Options :

1. ✔ Stress, shear modulus and pressure
2. ✘ Strain, shear modulus and force
3. ✘ Shear modulus, stress and force
4. ✘ Stress, strain and pressure

Question Number : 36 Question Id : 636 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Relative density of a compacted dense sand is approximately equal to

Options :

1. ✘ 0.4

2. ✓ 0.95

3. ✗ 0.50

4. ✗ 1.10

Question Number : 37 Question Id : 637 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is the mode of failure in a fillet weld material?

Options :

1. ✗ Tension

2. ✓ Shear

3. ✗ Bearing

4. ✗ Crushing

Question Number : 38 Question Id : 638 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Kinematic viscosity of gases on increase of temperature

Options :

1. ✗ Decreases

2. ✓ Increases

3. ✗ Remains the same

4. ✗ First decreases then increases

Question Number : 39 Question Id : 639 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Benchmark is established by

Options :

1. ✗ Hypsometry

2. ✗ Barometric levelling

3. ✓ Spirit levelling

4. ✗ Trigonometrical levelling

Question Number : 40 Question Id : 640 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A critical path has

Options :

1. ✓ Zero float

2. ✗ Minimum float

3. ✘ Maximum float

4. ✘ Infinite float

Question Number : 41 Question Id : 641 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A sample of cement is said to be sound when it does not contain free

Options :

1. ✔ Lime

2. ✘ Silica

3. ✘ Iron oxide

4. ✘ Alumina

Question Number : 42 Question Id : 642 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The tensile strength of concrete is approximately what percent of compressive strength of concrete

Options :

1. ✘ 50%

2. ✘ 20%

3. ✔ 10%

4. ✘ 5%

Question Number : 43 Question Id : 643 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The eddy viscosity for turbulent flow is

Options :

1. ✘ A function of temperature only

2. ✘ A physical property of the fluid

3. ✔ Dependent on the flow

4. ✘ Independent of the flow

Question Number : 44 Question Id : 644 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The type of surveying which requires least office work is

Options :

1. ✘ Tacheometry

2. ✘ Trigonometrical levelling

3. ✓ Plane table surveying

4. ✗ Theodolite surveying

Question Number : 45 Question Id : 645 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The ratio of volume of voids to the total volume of soil mass is called

Options :

1. ✗ Air content

2. ✓ Porosity

3. ✗ Percentage air voids

4. ✗ Voids ratio

Question Number : 46 Question Id : 646 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which is the purest form of iron?

Options :

1. ✗ Cast iron

2. ✓ Wrought iron

3. ✗ Mild steel

4. ✗ High carbon steel

Question Number : 47 Question Id : 647 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Commonly used instruments in power system measurement are

Options :

1. ✓ induction

2. ✗ moving coil or iron

3. ✗ rectifier

4. ✗ electrostatic

Question Number : 48 Question Id : 648 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Damping of the Ballistic galvanometer is made small to

Options :

1. ✓ get first deflection large

2. ✗ make the system oscillatory

3. ✗ make the system critically damped

4. ✗ get minimum overshoot

Question Number : 49 Question Id : 649 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The rectifier instrument is not free from

Options :

1. ✘ temperature error
2. ✘ wave shape error
3. ✔ frequency error
4. ✘ both wave and frequency error

Question Number : 50 Question Id : 650 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Alternating current is measured by

Options :

1. ✔ induction ammeter
2. ✘ permanent magnet type ammeter
3. ✘ electrostatic ammeter
4. ✘ moving iron repulsion type voltmeter

Question Number : 51 Question Id : 651 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Most sensitive galvanometer is

Options :

1. ✘ elastic galvanometer
2. ✘ vibration galvanometer
3. ✘ Duddlb galvanometer
4. ✔ spot ballistic galvanometer

Question Number : 52 Question Id : 652 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The suspended solids present in surface water can be determined by

Options :

1. ✔ gravimetric test
2. ✘ colourimetric test
3. ✘ titrimetric test
4. ✘ spectrophotometric test

Question Number : 53 Question Id : 653 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The disease caused by mercury is known as

Options :

1. ✘ itai – itai
2. ✘ blue baby disease
3. ✔ minimata
4. ✘ skin disease

Question Number : 54 Question Id : 654 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Length to width ratio of rectangular sedimentation tank should be

Options :

1. ✘ 3 : 4
2. ✔ 3 : 1
3. ✘ 4 : 1
4. ✘ 1 : 5

Question Number : 55 Question Id : 655 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The average concentration of ozone in troposphere is

Options :

1. ✘ 0.3 ppm
2. ✔ 0.05 ppm
3. ✘ 0.5 ppm
4. ✘ 0.1 ppm

Question Number : 56 Question Id : 656 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A condition of sudden permanent aural damage resulting from an intense short term exposure of noise is called

Options :

1. ✔ acoustic trauma
2. ✘ annoyance
3. ✘ temporary threshold shift
4. ✘ permanent threshold shift

Question Number : 57 Question Id : 657 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The acidity in the atmosphere is basically caused due to emission of SO<sub>x</sub> and NO<sub>x</sub>. The percentage contribution of SO<sub>x</sub> and NO<sub>x</sub> in the formation of acidity is

Options :

1. ✘ 80 % and 20 % respectively
2. ✔ 70 % and 30 % respectively
3. ✘ 50 % and 50 % respectively
4. ✘ 60 % and 40 % respectively

Question Number : 58 Question Id : 658 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is not a valid category of impact printers?

Options :

1. ✘ Chain printers
2. ✘ Line printers
3. ✘ Band printers
4. ✔ Ink-jet printers

Question Number : 59 Question Id : 659 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is not true about PROM?

Options :

1. ✘ Random access memory
2. ✘ Programmable read only memory
3. ✘ Non-volatile memory
4. ✔ Sequential access memory

Question Number : 60 Question Id : 660 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following components of CPU is responsible to direct the system to execute instructions?

Options :

1. ✘ Arithmetic and Logic Unit (ALU)
2. ✔ Control Unit (CU)
3. ✘ Registers
4. ✘ Random Access Memory (RAM)

Question Number : 61 Question Id : 661 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

BCD stands for \_\_\_\_\_

Options :



1.  Binary Coded Decimal
2.  Binary Code Display
3.  Bidirectional Coded Data
4.  Binary Coded Data

Question Number : 62 Question Id : 662 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The binary representation of 144.5 is \_\_\_\_\_

Options :

1.   $(10010000.01)_2$
2.   $(10010001.11)_2$
3.   $(10010000.10)_2$
4.   $(10011001.11)_2$

Question Number : 63 Question Id : 663 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Considering X as a binary variable, the Boolean expression  $X \cdot 0$  is equivalent to

Options :

1.  X
2.  1
3.  0
4.   $X'$

Question Number : 64 Question Id : 664 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The 2's complement of the binary number  $(10000000)_2$  is

Options :

1.   $(01111111)_2$
2.   $(10101010)_2$
3.   $(10000000)_2$
4.   $(01010101)_2$

For the above question, User had specified 'ignore' during keys upload.

Question Number : 65 Question Id : 665 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Linux is a/an \_\_\_\_\_

Options :

1.  Application software
2.  Word processor
3.  Database management system

4. ✓ System software

Question Number : 66 Question Id : 666 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Class 'B' IP addresses use \_\_\_\_\_ bits for Host ID.

Options :

1. ✗ 8
2. ✓ 16
3. ✗ 24
4. ✗ 32

Question Number : 67 Question Id : 667 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a Web browser?

Options :

1. ✗ Netscape Navigator
2. ✗ Safari
3. ✓ HTML
4. ✗ Chrome

Question Number : 68 Question Id : 668 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The meaning of R.F. is

Options :

1. ✗ Reducing fraction
2. ✓ Representative fraction
3. ✗ Reduction factor
4. ✗ Representative factor

Question Number : 69 Question Id : 669 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a line is parallel to both H.P. and V.P., its true length will be seen in

Options :

1. ✓ Both front and top views
2. ✗ only in side view
3. ✗ only in front view
4. ✗ only in top view

Question Number : 70 Question Id : 670 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Planes which are inclined to both the horizontal and vertical planes are known as

Options :

1. ✗ auxiliary planes

2. ✘ profile planes
3. ✘ reference planes
4. ✔ oblique planes

Question Number : 71 Question Id : 671 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In first - angle projection system, the right hand side view of an object is drawn

Options :

1. ✘ right of the elevation
2. ✘ above the elevation
3. ✔ left of the elevation
4. ✘ below the elevation

Question Number : 72 Question Id : 672 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A square lamina is perpendicular to the H.P. and parallel to V.P.. Its horizontal trace will be

Options :

1. ✘ perpendicular to the reference line
2. ✔ parallel to the reference line
3. ✘ inclined to the reference line
4. ✘ a point

Question Number : 73 Question Id : 673 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A 0.5 kg ball is accelerated from rest to 12 m/s in 0.30 s. The force applied on the ball during its motion is

Options :

1. ✔ 20 N
2. ✘ 6.0 N
3. ✘ 40 N
4. ✘ 3.6 N.

Question Number : 74 Question Id : 674 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The acceleration due to gravity near the surface of Earth (radius  $R$ ) is proportional to

Options :

1. ✘  $R$
2. ✘  $1/R$
3. ✘  $R^2$

4. ✓  $1/R^2$ .

Question Number : 75 Question Id : 675 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A ball of mass 10 kg is moving with a velocity 5 m/s. The kinetic energy of the ball is

Options :

1. ✗ 50 J

2. ✓ 125 J

3. ✗ 250 J

4. ✗ 25 J.

Question Number : 76 Question Id : 676 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

. The end of a string is vibrated up and down once every 1.5 s and waves propagate at 6 m/s along the string. The wavelength of the waves is

Options :

1. ✗ 4.0 m

2. ✓ 9.0 m

3. ✗ 0.25 m

4. ✗ 1.5 m.

Question Number : 77 Question Id : 677 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An object is placed somewhere between the focus and centre of curvature of a concave mirror.

Which of the following best describes the image formed?

Options :

1. ✓ Real, inverted and magnification greater than one

2. ✗ Real, inverted and magnification less than one

3. ✗ Virtual, upright and magnification greater than one

4. ✗ Virtual, upright and magnification less than one.

Question Number : 78 Question Id : 678 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Two 1.5 V batteries in series power a transistor radio. The batteries hold a total charge of 270 C.

If the radio has a resistance of 100  $\Omega$ , the batteries will last

Options :

1. ✗ 5.0 hours

2. ✓ 2.5 hours

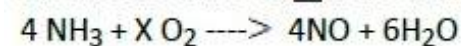
3. ✗ 1.25 hours

4. ✗ 33 hours.

Question Number : 79 Question Id : 679 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

what is the value of X in the following equation ;



Options :

2

1. ✘

2. ✘ 3

3. ✘ 4

4. ✔ 5

Question Number : 80 Question Id : 680 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

During the electrolytic refining of copper using copper sulphate as an electrolyte

Options :

1. ✔ Impure copper is made the anode

2. ✘ Impure copper is made the cathode

3. ✘ (ii) only

4. ✘ (iii) only

For the above question, User had specified 'ignore' during keys upload.

Question Number : 81 Question Id : 681 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The electronic configuration of an element is 2, 8, 1. To which of the following elements will it be similar?

Options :

1. ✔ 2,1

2. ✘ 2, 8, 4

3. ✘ 2, 7

4. ✘ 2, 8, 7

Question Number : 82 Question Id : 682 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A solution containing 80 grams of sodium hydroxide ( molecular mass= 40) completely neutralizes another solution containing 98 grams of an acid "A" (molecular mass= 98) . The charge on the anion part of "A" is

Options :

1. ✘ -1

2. ✔ -2

3. ✘ -3

4. ✘ -4

Question Number : 83 Question Id : 683 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is a saponification reaction?

Options :



Question Number : 84 Question Id : 684 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is a molecule of an element?

Options :

1. ✘ Neon (g)

2. ✔ Chlorine (g)

3. ✘ Sulphur dioxide (g)

4. ✘ Water (l)

Question Number : 85 Question Id : 685 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which out of the following perform all body functions in a single cell?

Options :

1. ✘ Bacteria only

2. ✔ Bacteria and Protozoa

3. ✘ Bacteria ,Protozoa and Fungi

4. ✘ Protozoa only

Question Number : 86 Question Id : 686 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In the food chain given below who gets the least energy ?



Options :

1. ✘ Leaves

2. ✘ Caterpillar

3. ✘ Bird

4. ✓ Cat

Question Number : 87 Question Id : 687 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which part of the flower becomes the seed after fertilization?

Options :

1. ✗ Pollen
2. ✓ Ovule
3. ✗ Ovary
4. ✗ Carpel

Question Number : 88 Question Id : 688 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

One feature in which spiders are different from insects is that spiders have

Options :

1. ✗ jointed legs
2. ✗ body covered with chitinous cuticle
3. ✗ body distinctly divided into parts like head etc.
4. ✓ four pairs of legs

Question Number : 89 Question Id : 689 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In humans, digestion begins in the

Options :

1. ✓ buccal cavity
2. ✗ oesophagus
3. ✗ stomach
4. ✗ intestine

Question Number : 90 Question Id : 690 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which is not a hereditary feature in humans?

Options :

1. ✗ Height
2. ✓ Weight

3. ✘ Blood group

4. ✘ Eye colour

Question Number : 91 Question Id : 691 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The HCF of two numbers is 15 and their LCM is 210. If one number is 105, the other number is

Options :

1. ✘ 15

2. ✔ 30

3. ✘ 45

4. ✘ 75

Question Number : 92 Question Id : 692 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The least number which when divided by 10, 15 and 18, leaving remainder 5 in each case is

Options :

1. ✘ 85

2. ✘ 90

3. ✔ 95

4. ✘ 105

Question Number : 93 Question Id : 693 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $a : b = 4 : 5$  and  $b : c = 2 : 3$ , then  $c : a$  is

Options :

1. ✔ 15 : 8

2. ✘ 8 : 15

3. ✘ 4 : 5

4. ✘ 3 : 4

Question Number : 94 Question Id : 694 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 25, x, 5, 3 are in proportion, then x is equal to

Options :

1. ✘ 5

2. ✔ 15

3. ✘ 75

4. ✘ 125



Question Number : 95 Question Id : 695 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Successive discounts of 20% and 5% are equivalent to a single discount of

Options :

1. ✘ 25%
2. ✘ 22%
3. ✘ 21%
4. ✔ 24%

Question Number : 96 Question Id : 696 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The simple interest on rupees 800 for 3 years at 5% per annum in rupees is

Options :

1. ✘ 24
2. ✘ 40
3. ✔ 120
4. ✘ 140

Question Number : 97 Question Id : 697 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compound interest on rupees 8000 for 1 year at 10% per annum compounded half yearly is

Options :

1. ✔ 800
2. ✘ 1680
3. ✘ 840
4. ✘ 820

For the above question, User had specified 'ignore' during keys upload.

Question Number : 98 Question Id : 698 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If CP of 7 articles is equal to SP of 5 articles, then in the whole transaction there is a profit of

Options :

1. ✔ 40%
2. ✘ 30%
3. ✘ 25%
4. ✘  $\frac{200}{7}\%$

Question Number : 99 Question Id : 699 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

To gain 20% after allowing a discount of 5%, the shopkeeper should mark the price of the article which cost him ₹ 475 as

Options :

1. ✘ ₹ 4500
2. ✘ ₹ 550
3. ✔ ₹ 600
4. ✘ ₹ 650

Question Number : 100 Question Id : 700 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 35 kg of wheat which cost him ₹ 15 per kg with 25 kg of wheat which costs him ₹ 20 per kg. He sells the mixture at ₹ 22 per kg. His gain is

Options :

1. ✔  $\frac{1180}{41}$  %
2. ✘  $\frac{1475}{66}$  %
3. ✘  $\frac{1080}{41}$  %
4. ✘  $\frac{1325}{41}$  %

Question Number : 101 Question Id : 701 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In two vessels A and B, the milk and water are in the ratio of 3 : 4 and 2 : 3 respectively. The ratio in which these are mixed to obtain new mixture which contains milk and water in the ratio 20 : 29 is

Options :

1. ✘ 6 : 5
2. ✘ 7 : 9
3. ✔ 2 : 5
4. ✘ 3 : 5

Question Number : 102 Question Id : 702 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A person cycles from one place to another in 100 minutes. If his speed is 18 km/h, the distance between two places is

Options :

1. ✘ 20 km
2. ✔ 30 km
3. ✘ 15 km
4. ✘ 25 km

Question Number : 103 Question Id : 703 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A train 200 m long is moving at 68 km/h. The time in seconds, it will take to pass another train 150 m long which is moving at 50 km/h in the same direction from the moment they meet is

Options :

1. ✘ 40
2. ✘ 50
3. ✘ 60
4. ✔ 70

Question Number : 104 Question Id : 704 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A and B can do a piece of work in 24 days. If efficiency of A is double than B, then in how many days B alone can do the same work?

Options :

1. ✔ 72
2. ✘ 60
3. ✘ 36
4. ✘ 30

Question Number : 105 Question Id : 705 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece of work in 12 days, Q and R in 15 days and R and P in 20 days. In how many days R alone can do the same work?

Options :

1. ✘ 70
2. ✔ 60
3. ✘ 45
4. ✘ 30

Question Number : 106 Question Id : 706 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of first six even whole numbers is

Options :

1. ✔ 5
2. ✘ 6
3. ✘ 7
4. ✘ 8

Question Number : 107 Question Id : 707 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average weight of 100 students is 46 kg. The average weight of girls is 40 kg. If the number of girls is 40, the average weight of boys in kilograms is

Options :

1. ✘ 40
2. ✘ 45

3. ✓ 50

4. ✗ 60

Question Number : 108 Question Id : 708 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The common difference of an AP in which  $a_{18} - a_{13} = 45$  is

Options :

1. ✗ -9

2. ✓ 9

3. ✗ -5

4. ✗ 5

Question Number : 109 Question Id : 709 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The tenth term of the GP  $3, 1, \frac{1}{3}, \dots$  is

Options :

1. ✗  $3^{-10}$

2. ✗  $3^{-9}$

3. ✓  $3^{-8}$

4. ✗  $3^9$

Question Number : 110 Question Id : 710 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A ladder 15 m long just reaches the top of a vertical wall. If the ladder makes an angle of  $60^\circ$  with the wall, the distance of the foot of the ladder from the wall is

Options :

1. ✗ 7.5 m

2. ✗  $5\sqrt{3}$  m

3. ✗  $10\sqrt{3}$  m

4. ✓  $\frac{15\sqrt{3}}{2}$  m

Question Number : 111 Question Id : 711 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

From a point on the bridge across a river the angles of depression of the bank on the opposite side of the river are  $60^\circ$  and  $45^\circ$  respectively. If the bridge is at a height of 4m from the bank, the width of the river is

Options :

1. ✓  $\frac{4(3+\sqrt{3})}{3}$  m

2. ✘  $4(\sqrt{3} + 1) m$

3. ✘  $\frac{2(1+\sqrt{3})}{3} m$

4. ✘  $2(2\sqrt{3} + 1)m$

Question Number : 112 Question Id : 712 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $(x - 1)$  is a factor of  $x^4 + x^3 - 2x^2 + ax + 1$ , then  $a$  is equal to

Options :

1. ✘ 1

2. ✔ - 1

3. ✘ 2

4. ✘ - 2

Question Number : 113 Question Id : 713 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the factors of  $(49x^2 - 1) + (1 + 7x)^2$  is

Options :

1. ✘  $7 + x$

2. ✘  $7 - x$

3. ✔  $14x$

4. ✘  $7x - 1$

Question Number : 114 Question Id : 714 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

All values of  $k$  for which  $2x^2 + kx + 8 = 0$  has real roots is

Options :

1. ✘  $-8 \leq k \leq 8$

2. ✔  $8 \leq k \leq -8$

3. ✘  $-2\sqrt{2} \leq k \leq 2\sqrt{2}$

4. ✘  $2\sqrt{2} \leq k \leq -2\sqrt{2}$

Question Number : 115 Question Id : 715 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum and product of the roots of the equation  $-5x^2 + 2x - 10 = 0$  are respectively

Options :

1. ✘  $-\frac{2}{5}, 2$

2. ✘  $2, -\frac{2}{5}$

3. ✔  $\frac{2}{5}, 2$

4. ✘  $-\frac{2}{5}, -2$

Question Number : 116 Question Id : 716 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which statement is not true for a game of Badminton?

Options :

1. ✘ Total points to be scored are 21

2. ✘ If both sides score upto game point, the winner needs two clear points in a row

3. ✘ The game never ends in a draw

4. ✔ Total points to be scored are 15

Question Number : 117 Question Id : 717 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Paralympics is a multisport event involving those athletes who are

Options :

1. ✘ only visually challenged

2. ✘ only hearing impaired

3. ✘ just mentally challenged

4. ✔ with a range of physical disability

Question Number : 118 Question Id : 718 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Whose saying 'Earth has enough for man's need but not enough for man's greed' is often being quoted by speakers on Environment?

Options :

1. ✘ Independent India's first Prime Minister

2. ✘ The second President of India

3. ✘ The Environmentalist, Madhav Gadgil

4. ✓ The father of our nation

Question Number : 119 Question Id : 719 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The country called 'Land of the Rising Sun' is

Options :

- 1. ✗ China
- 2. ✗ Norway
- 3. ✓ Japan
- 4. ✗ Sweden

Question Number : 120 Question Id : 720 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The term 'collegium system' was recently seen in the newspapers.  
With which field is this term associated?

Options :

- 1. ✗ Education
- 2. ✓ Judiciary
- 3. ✗ Politics
- 4. ✗ Constitution

Question Number : 121 Question Id : 721 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

One of the following is not an objective of the Mid-day Meal scheme in school launched by the government. Select from options given below

Options :

- 1. ✗ Provide full nutritional support to children at the Primary stage of education
- 2. ✗ Encourage disadvantaged section of the society to attend school regularly and concentrate on studies
- 3. ✗ Improve the nutritional status of children in the primary section
- 4. ✓ Bridge the gender and social category gaps in schools at the primary level itself

Question Number : 122 Question Id : 722 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one out of the values of the Indian constitution means 'having complete freedom and being the supreme authority'?

Options :

1. ✘ Socialism
2. ✘ Secularism
3. ✔ Sovereignty
4. ✘ Liberty

Question Number : 123 Question Id : 723 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

There are two forms of government, presidential and parliamentary. Which type of government do India, US and England have?

Options :

1. ✘ India – Parliamentary, England – Parliamentary, US – Parliamentary
2. ✘ India – Presidential, England – Parliamentary, US – Presidential
3. ✔ India – Parliamentary, England – Parliamentary, US – Presidential
4. ✘ All three countries have Presidential form

Question Number : 124 Question Id : 724 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If you were to measure the strength of a current which instrument would you look for ?

Options :

1. ✘ Voltmeter
2. ✘ Thermometer
3. ✔ Ammeter
4. ✘ Barometer

Question Number : 125 Question Id : 725 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Another term for genetic engineering is

Options :

1. ✔ Recombinant DNA technology
2. ✘ Polymerase Chain Reaction
3. ✘ DNA Fingerprinting
4. ✘ DNA Typing

Question Number : 126 Question Id : 726 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33



Which function of the body is not carried out by long bones?

Options :

1. ✘ Providing support to legs
2. ✘ Formation of blood
3. ✔ Making the neck rotate to body bend on the sides
4. ✘ Serving as platform for attachment of muscles

Question Number : 127 Question Id : 727 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which disease does Quinine cure and from which plant is it obtained?

Options :

1. ✔ Malaria ; Cinchona
2. ✘ Blood Pressure ; Rawolfia
3. ✘ Tuberculosis ; Nicotiana
4. ✘ Jaundice ; Hibiscus

Question Number : 128 Question Id : 728 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The artificial satellites cannot be used for

Options :

1. ✘ Relaying Radio, TV and Telephone signals
2. ✘ Weather forecasting
3. ✔ Monitoring atmospheric pollution
4. ✘ Exploring solar system

Question Number : 129 Question Id : 729 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Of the Slav population scattered in Eastern Europe, those who began the Pan Slav movement to have one state were

Options :

1. ✔ Serbians
2. ✘ Bulgarians
3. ✘ Romanians
4. ✘ Polish

Question Number : 130 Question Id : 730 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

## Who built the Pyramids?

Options :

1. ✓ Pharaohs
2. ✗ Chinese
3. ✗ Confucians
4. ✗ Romans

Question Number : 131 Question Id : 731 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The king of Mauryan Empire who in 322 BC uprooted Greeks from Punjab and Nandas from the Gangetic plane was

Options :

1. ✓ Chadragupta
2. ✗ Bindusar
3. ✗ Ashok
4. ✗ Mahapadmananda

Question Number : 132 Question Id : 732 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which method will you use to separate yoghurt (Curd) from water contained in it?

Options :

1. ✗ Distillation
2. ✗ Crystallisation
3. ✓ Filtration
4. ✗ Decantation

Question Number : 133 Question Id : 733 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Out of two bottles of pickle, one old and one freshly made, the old one can be detected by its smell and taste caused by

Options :

1. ✓ Oxidation of oil in the pickle making it rancid
2. ✗ Invasion of bacteria causing putrefaction
3. ✗ Reduction in volume of oil in the pickle
4. ✗ Fermentation by yeast

Question Number : 134 Question Id : 734 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Hair dyes may contain the base

Options :

1. ✘ Sodium Hydroxide
2. ✔ Ammonium Hydroxide
3. ✘ Calcium Hydroxide
4. ✘ Potassium Hydroxide

Question Number : 135 Question Id : 735 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A bicycle pump works on the principle:

Options :

1. ✔ When volume decreases, pressure increases
2. ✘ When volume increases, pressure increases
3. ✘ Air pressure at one point becomes zero
4. ✘ At one point volume and pressure become equal

Question Number : 136 Question Id : 736 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is not true of the Thar Desert?

Options :

1. ✘ Has arid and semiarid weather conditions throughout the year
2. ✘ The flora is mainly cacti and thorny bushes
3. ✔ Water is available in sinduates and streams which are always there even without rainfall
4. ✘ Rainfall is scanty

Question Number : 137 Question Id : 737 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is a hotspot?

Options :

1. ✔ A region of high endemic biodiversity
2. ✘ A geographical area with very high exotic bio-diversity
3. ✘ A region of scanty rainfall
4. ✘ An area of constant high temperature

Question Number : 138 Question Id : 738 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Give the term for 'Price of one currency in terms of another'.

Options :

1. ✘ Effective exchange rate
2. ✔ Nominal exchange rate
3. ✘ Spot rate
4. ✘ Purchasing Power Parity

Question Number : 139 Question Id : 739 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The labour or workforce of a country does not include one of the following.

Options :

1. ✘ Employees of Government
2. ✘ Self employed
3. ✘ Unemployed
4. ✔ Those of age less than 14 years

Question Number : 140 Question Id : 740 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The terms of trade measure

Options :

1. ✔ Ratio of export prices and import prices
2. ✘ Sum of export prices and import prices
3. ✘ Difference of export price and import price
4. ✘ Product of export price and import price

Question Number : 141 Question Id : 741 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Pointing to a portrait, Suresh said, "His father is the husband of my father's only daughter." How is the person in the portrait related to Suresh?

Options :

1. ✔ uncle
2. ✘ nephew
3. ✘ cousin
4. ✘ brother

For the above question, User had specified 'ignore' during keys upload.

Question Number : 142 Question Id : 742 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

$$27 : 65 :: 125 : ?$$

Options :

1. ✓ 217
2. ✗ 237
3. ✗ 253
4. ✗ 344

For the above question, User had specified 'ignore' during keys upload.

Question Number : 143 Question Id : 743 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The two words on the left side of the sign '::' are related in a certain way. The same relationship holds for the second pair of words on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

School : Student :: Hospital : ?

Options :

1. ✓ Doctor
2. ✗ Patient
3. ✗ Nurse
4. ✗ Inmates

For the above question, User had specified 'ignore' during keys upload.

Question Number : 144 Question Id : 744 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A team of five is to be selected from among five boys P, Q, R, S, and T and four girls A, B, C and D with the following conditions.

- (i) B and R have to be put together.
- (ii) P cannot be put with D.
- (iii) C and Q cannot be together.
- (iv) S cannot be put with A.

If the team would consist of 3 boys and 2 girls, the team will consist of:

Options :

1. ✓ RTSBA

2. ✘ TCAPQ

3. ✘ DTQPS

4. ✘ QBATR

For the above question, User had specified 'ignore' during keys upload.

Question Number : 145 Question Id : 745 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Wall 2. Brick 3. Decoration 4. House 5. Clay 6. Room

Options :

1. ✔ 2, 5, 1, 6, 3, 4

2. ✘ 5, 2, 1, 6, 3, 4

3. ✘ 5, 2, 1, 6, 4, 3

4. ✘ 5, 1, 2, 6, 4, 3

For the above question, User had specified 'ignore' during keys upload.

Question Number : 146 Question Id : 746 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The numbers in each group are related in a certain way. Choose the correct number from among the alternatives that will replace the question mark.

(3 [5] 4) (5 [13] 12) (6 [?] 8)

Options :

1. ✔ 11

2. ✘ 10

3. ✘ 14

4. ✘ 9

For the above question, User had specified 'ignore' during keys upload.

Question Number : 147 Question Id : 747 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a certain language, '283' means 'trees have leaves'; '758' means 'leaves are green'; and '2495' means 'forests have green bushes'. Which digit means 'forests' in that language?

Options :

1. ✔ 9

2. ✘ 4

3. ✘ either 4 or 9

4. ✖ either 2 or 9

For the above question, User had specified 'ignore' during keys upload.

Question Number : 148 Question Id : 748 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 'QUESTION' is coded as 'OTEQUSIN', then 'COMPUTER' would be coded as:

Options :

1.  EUMCOPTR

2.  RTPOCMUE

3.  EUMCRTPO

4.  CMUERTPO


For the above question, User had specified 'ignore' during keys upload.

Question Number : 149 Question Id : 749 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Starting from his school, Vipul moves 5 km to the West, takes a left turn and moves 10 km. He then takes two successive left turns covering 10 km and 15 km respectively. Finally he takes another left turn and covers 10 km. In which direction is he now with respect to his school?

Options :

1.  North-East

2.  North

3.  North-West

4.  West

For the above question, User had specified 'ignore' during keys upload.

Question Number : 150 Question Id : 750 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The numbers in the matrix given below follow a certain trend row-wise and and/or column wise. Study the trend and choose the number which will replace the question mark?

3	8	11
6	4	10
45	80	?

Options :

- 108
- 196
- 202
- 221

For the above question, User had specified 'ignore' during keys upload.



# Railway Recruitment Board

## Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	Junior Engineer 27th Aug Shift 2 Actual
<b>Subject Name:</b>	Junior Engineer
<b>Creation Date:</b>	2015-08-18 12:47:00.0
<b>Cut Off:</b>	0
<b>Duration:</b>	120
<b>Number of Questions:</b>	150
<b>Total Marks:</b>	150.0

## Junior Engineer

Group Number :	1
Group Id :	5
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	150.0

## Junior Engineer

Section Id :	5
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	150.0

Sub-Section Number:	1
Sub-Section Id:	5
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 901 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33**

First law of thermodynamics deals with

## Options :

- ✗ Conservation of heat
- ✗ Conservation of momentum

3. ✘ Conservation of mass
4. ✔ Conservation of energy

Question Number : 2 Question Id : 902 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An isothermal process is governed by

Options :

1. ✔ Boyle's law
2. ✘ Charle's law
3. ✘ Gay-lussac's law
4. ✘ Avogadro's law

Question Number : 3 Question Id : 903 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A carburetor is used to supply

Options :

1. ✘ Petrol, air and lubricating oil
2. ✘ Air and diesel
3. ✘ Petrol and lubricating oil
4. ✔ Petrol and air

Question Number : 4 Question Id : 904 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A diesel engine has compression ratio from

Options :

1. ✘ 6 to 10
2. ✘ 10 to 15
3. ✔ 15 to 25
4. ✘ 25 to 40

Question Number : 5 Question Id : 905 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Heat is closely related with

Options :

1. ✘ Energy
2. ✔ Temperature
3. ✘ Entropy
4. ✘ Enthalpy

Question Number : 6 Question Id : 906 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Metals are good conductor of heat because

Options :

1.  Their atoms collide frequently
2.  Their atoms are relatively far apart
3.  They contain free electron
4.  They have high density

Question Number : 7 Question Id : 907 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Heat conduction in gases is due to

Options :

1.  Electromagnetic waves
2.  Motion of electrons
3.  Mixing motion of the different layers of the gas
4.  Elastic impact of molecules

Question Number : 8 Question Id : 908 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In shielded arc welding

Options :

1.  Large electrode is used
2.  Welding rod coated with slag is used
3.  Welding rod coated with flux material is used
4.  Welding rod is not used

Question Number : 9 Question Id : 909 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Oxyacetylene flame having more amount of  $C_2H_2$  is called

Options :

1.  Oxidizing flame
2.  Neutral flame
3.  Carburizing flame
4.  Red flame

Question Number : 10 Question Id : 910 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Nose radius is expressed in

Options :

1. ✘ Degree
2. ✘ Radian
3. ✔ mm
4. ✘ Steradian

Question Number : 11 Question Id : 911 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An ideal tool material is the one which

Options :

1. ✘ Has very long life
2. ✔ Has same life at all cutting speed
3. ✘ Produces no heat during cutting
4. ✘ Produces smooth surface finish

Question Number : 12 Question Id : 912 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Chills are used in casting moulds to

Options :

1. ✔ Achieve directional solidification
2. ✘ Reduce possibility of blow holes
3. ✘ Reduce the freezing time
4. ✘ Increase the smoothness of surface

Question Number : 13 Question Id : 913 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The two parts of a sand casting mould are called

Options :

1. ✘ Gate and sprue
2. ✘ Upper and drag
3. ✔ Cope and drag
4. ✘ Cope and bottom

Question Number : 14 Question Id : 914 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An engine operates between temperature limits of 900 K and  $T_2$ ; and another between  $T_2$  and 400 K. For both the engines to be equally efficient,  $T_2$  should be equal to

Options :

1.  600 K
2.  650 K
3.  625 K
4.  700 K

Question Number : 15 Question Id : 915 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A network or circuit that does not contain any source of emf is known as

Options :

1.  Active network
2.  Linear circuit
3.  Bilateral network
4.  Passive network

Question Number : 16 Question Id : 916 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The number of brushes in the commutator depends upon

Options :

1.  speed of armature
2.  type of winding
3.  voltage
4.  amount of current to be collected

Question Number : 17 Question Id : 917 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

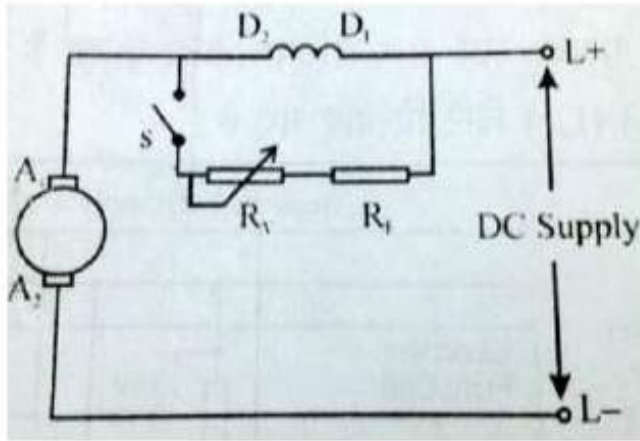
The phenomenon of "crawling" in an induction motor occurs due to

Options :

1.  improper design of machine
2.  low voltage supply
3.  high load
4.  harmonics developed in the motor

Question Number : 18 Question Id : 918 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Determine the speed control method for a DC motor shown in the following figure:



Options :

1. ✓ Field diverter method
2. ✗ Armature diverter method
3. ✗ Tapped Field Control
4. ✗ Resistance diverter control

Question Number : 19 Question Id : 919 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A no-load test is performed on a transformer to determine

Options :

1. ✗ magnetising current only
2. ✗ core losses only
3. ✗ efficiency
4. ✓ magnetising current and losses

Question Number : 20 Question Id : 920 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The ratio of secondary turns to primary in a transformer is 3. If the emf in the secondary coil is 600 V, emf in the primary will be

Options :

1. ✗ 1800 V
2. ✗ 900 V
3. ✓ 200 V
4. ✗ 600 V

Question Number : 21 Question Id : 921 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The shaded pole motor is used for

Options :

1. ✘ high starting torque
2. ✔ low starting torque
3. ✘ medium starting torque
4. ✘ very high starting torque

Question Number : 22 Question Id : 922 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The equipment installed in power plants to reduce air pollution due to smoke is called

Options :

1. ✘ De superheaters
2. ✘ Economiser
3. ✘ Preheater
4. ✔ Electrostatic Precipitators

Question Number : 23 Question Id : 923 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a welding accessory?

Options :

1. ✘ Goggles
2. ✔ Vacuum cleaner
3. ✘ Gloves
4. ✘ Electrode holder

Question Number : 24 Question Id : 924 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The key job of the relay is to

Options :

1. ✘ increase voltage
2. ✔ search the fault
3. ✘ reduce resistance
4. ✘ stop the current flow

Question Number : 25 Question Id : 925 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

$100101_2$  is equal to decimal number

Options :

1. ✘ 47

2. ✓ 37

3. ✗ 21

4. ✗ 17

Question Number : 26 Question Id : 926 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A counter has N flip flops. The total number of states are

Options :

1. ✗ N

2. ✗  $N^2$

3. ✗ 4N

4. ✓  $2^n$

Question Number : 27 Question Id : 927 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In an n-p-n transistor, the majority carriers in the base are

Options :

1. ✓ holes

2. ✗ electrons

3. ✗ both holes and electrons

4. ✗ either electrons or holes

Question Number : 28 Question Id : 928 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is used for generating time varying wave forms?

Options :

1. ✗ MOSFET

2. ✗ PIN diode

3. ✗ Tunnel diode

4. ✓ UJT

Question Number : 29 Question Id : 929 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The voltage across a zener diode

Options :

1. ✗ is constant in forward direction

2. ✓ is constant in reverse direction

3. ✗ is constant in both forward and reverse direction



4. ✘ is not constant

Question Number : 30 Question Id : 930 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of these has highly doped p and n region?

Options :

1. ✘ PIN diode
2. ✔ Tunnel diode
3. ✘ Photodiode
4. ✘ Schottky diode

Question Number : 31 Question Id : 931 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

At room temperature a semiconductor material is

Options :

1. ✘ perfect insulator
2. ✘ superconducting
3. ✘ conducting
4. ✔ slightly conducting

Question Number : 32 Question Id : 932 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following has highest conductivity?

Options :


1. ✔ Silver
2. ✘ Aluminium
3. ✘ Platinum
4. ✘ Tin

Question Number : 33 Question Id : 933 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In TV, an electrical disturbance (noise) affects


Options :

1. ✘ neither the video nor the audio signals
2. ✘ only the audio signals
3. ✘ both the video and audio signals
4.  only the video signals

Question Number : 34 Question Id : 934 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In a mercury arc rectifier, characteristic blue luminosity is due to

Options :

1. ✘ high temperature
2. ✘ electron streams
3.  ionization
4. ✘ colour of mercury

Question Number : 35 Question Id : 935 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The stress below which a material has a high probability of not failing under reversal of stress is known as

Options :

1. ✘ Tolerance limit
2. ✘ Elastic limit
3. ✘ Proportional limit
4. ✔ Endurance limit

Question Number : 36 Question Id : 936 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A pycnometer is used to determine

Options :

1. ✘ Water content and voids ratio
2. ✔ Specific gravity and dry density
3. ✘ Water content and specific gravity
4. ✘ voids ratio and dry density

Question Number : 37 Question Id : 937 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

For M20 grade of concrete, the maximum shear stress shall not exceed

Options :

1. ✔ 1.6 N/mm<sup>2</sup>
2. ✘ 1.9 N/mm<sup>2</sup>
3. ✘ 2.8 N/mm<sup>2</sup>
4. ✘ 2.2 N/mm<sup>2</sup>

For the above question, User had specified 'ignore' during keys upload.

Question Number : 38 Question Id : 938 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Lacings are subjected to

Options :

1. ✘ Transverse loading
2. ✘ Axial loading plus bending
3. ✘ Axial loading plus shear force
4. ✔ Axial loading only

Question Number : 39 Question Id : 939 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The flow profile of a fluid depends upon

Options :

1. ✘ Velocity of the fluid only
2. ✘ The diameter of the tube only
3. ✔ The Reynold number
4. ✘ The surface roughness

Question Number : 40 Question Id : 940 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In PERT analysis, event means

Options :

1. ✔ Start or finish of a task
2. ✘ Time taken for a task
3. ✘ End of an activity
4. ✘ Work involved in the project

Question Number : 41 Question Id : 941 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Plaster of paris is obtained by calcining

Options :

1. ✔ Gypsum
2. ✘ Bauxite
3. ✘ Lime stone
4. ✘ Kanker

Question Number : 42 Question Id : 942 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Plywood is obtained from

Options :

1. ✘ Bamboo
2. ✘ Teak wood
3. ✔ Structural timber
4. ✘ Commonly available timber

Question Number : 43 Question Id : 943 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following device is not used to measure the rate of flow

Options :

1. ✘ Venturimeter
2. ✔ Pitot tube
3. ✘ Orificemeter
4. ✘ Rotameter

Question Number : 44 Question Id : 944 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Intersection method of detailed plotting is most suitable for

Options :

1. ✘ Forests
2. ✘ Urban areas
3. ✔ Hilly areas
4. ✘ Plains

Question Number : 45 Question Id : 945 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Coarse grained soils are best compacted by a

Options :

1. ✘ Drum roller
2. ✘ Rubbed tyred roller
3. ✘ Sheep's foot roller
4. ✔ Vibratory roller

Question Number : 46 Question Id : 946 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Percentage of carbon content in mild steel is

Options :

1. ✓ Less than 0.25
2. ✗ Between 0.25 to 0.7
3. ✗ Between 0.7 to 1.5
4. ✗ Greater than 1.5

Question Number : 47 Question Id : 947 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An induction meter can handle current upto

Options :

1. ✗ 10 A
2. ✗ 30 A
3. ✗ 60 A
4. ✓ 100 A

Question Number : 48 Question Id : 948 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Induction type single phase energy meters measure electric energy in

Options :

1. ✗ kW
2. ✗ Wh
3. ✓ kWh
4. ✗ VAR

Question Number : 49 Question Id : 949 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is / are an essential part of a motor meter?

Options :

1. ✗ An operating torque system
2. ✗ A braking device
3. ✗ Revolution registering device
4. ✓ operating torque system, braking device and Revolution registering device

Question Number : 50 Question Id : 950 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

----- is an instrument which measures the insulation resistance of an electric circuit relative to earth and one another,

Options :

1. ✗ Tangent galvanometer
2. ✓ Meggar

3. ✘ Current transformer

4. ✘ Thermisto

Question Number : 51 Question Id : 951 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The household energy meter is

Options :

1. ✘ an indicating instrument

2. ✘ a recording instrument

3. ✔ an integrating instrument

4. ✘ both integrating and indicating instrument

Question Number : 52 Question Id : 952 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In house water connection, a ferrule is provided, which is a

Options :

1. ✘ small sized curved pipe made of a flexible material

2. ✔ right angled sleeve made of brass or gun metal

3. ✘ galvanised iron pipe of size less than 50 mm diameter

4. ✘ flexible connection between the water main and the service pipe

Question Number : 53 Question Id : 953 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The prescribed permissible limit of chloride in drinking water is

Options :

1. ✘ 150 mg/l

2. ✘ 200 mg/l

3. ✔ 250 mg/l

4. ✘ 300 mg/l

Question Number : 54 Question Id : 954 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The water treatment plants are generally designed for a period of

Options :

1. ✘ 50 years

2. ✔ 30 years

3. ✘ 40 years

4. ✘ 25 years

Question Number : 55 Question Id : 955 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The oxides of nitrogen at higher concentration levels affect a fabric resulting its colour to change from

Options :

1. ✘ white to black
2. ✘ white to grey
3. ✔ white to yellow
4. ✘ white to pink

Question Number : 56 Question Id : 956 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Two machines are working in a noisy environment. Machines are jointly producing 75 dBA noise level, however, the background noise level is also 75 dBA. The summation of these two noise levels is

Options :

1. ✘ 150 dBA
2. ✘ 75 dBA
3. ✔ 78 dBA
4. ✘ 81 dBA

Question Number : 57 Question Id : 957 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In stratosphere, the ozone concentration

Options :

1. ✘ increases with altitude
2. ✔ found maximum at mid and decreases either side
3. ✘ decreases with altitude
4. ✘ uniformly distributed within the sphere

Question Number : 58 Question Id : 958 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Mouse is a(an) \_\_\_\_\_

Options :

1. ✔ Input device
2. ✘ Output device
3. ✘ Storage device

4. ✘ Both input and output device

Question Number : 59 Question Id : 959 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not true about EEPROM?

Options :

1. ✘ Random access memory

Electrically erasable programmable read

2. ✘ only memory

3. ✘ Non-volatile memory

4. ✔ Sequential access memory

Question Number : 60 Question Id : 960 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is not a valid category of “system bus” in a computer system?

Options :

1. ✘ Data bus

2. ✘ Control bus

3. ✘ Address bus

4. ✔ Memory bus

Question Number : 61 Question Id : 961 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

EBCDIC stands for \_\_\_\_\_

Options :

Extended Binary Coded Data Interchange

1. ✘ Code

Expanded Binary Coded Decimal

2. ✘ Interchange Code

Extended Binary Coded Decimal

3. ✔ Interchange Code

Expanded Binary Coded Data Interchange

4. ✘ Code

Question Number : 62 Question Id : 962 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The octal representation of 195.25 is \_\_\_\_\_

Options :

1. ✔ (303.20)<sub>8</sub>

2. ✘ (303.02)<sub>8</sub>



3. ✘ (313.20)<sub>8</sub>

4. ✘ (323.20)<sub>8</sub>

Question Number : 63 Question Id : 963 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X as a binary variable, the Boolean expression  $X + X'$  is equivalent to

Options :

1. ✘ X

2. ✔ 1

3. ✘ 0

4. ✘ X'

Question Number : 64 Question Id : 964 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 2's complement of the binary number  $(11111111)_2$  is

Options :

1. ✘  $(10000000)_2$

2. ✘  $(00000000)_2$

3. ✔  $(00000001)_2$

4. ✘  $(01010101)_2$

Question Number : 65 Question Id : 965 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following operating systems is case sensitive?

Options :

1. ✔ Unix

2. ✘ MS-DOS

3. ✘ MS-Windows

4. ✘ Mac OS X

Question Number : 66 Question Id : 966 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Class 'C' IP addresses use \_\_\_\_\_ bits for Host ID.

Options :

1. ✔ 8

2. ✘ 16

3. ✘ 24

4. ✘ 32

Question Number : 67 Question Id : 967 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is not an e-mail protocol?

Options :

1. ✘ POP
2. ✘ IMAP
3. ✘ SMTP
4. ✔ FTP

Question Number : 68 Question Id : 968 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The diagonal scale is used to represent

Options :

1. ✔ three consecutive units
2. ✘ two consecutive units
3. ✘ diagonal of square
4. ✘ diagonal of rectangle

Question Number : 69 Question Id : 969 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If a line is parallel to H.P. and inclined to V.P., its true length will be seen in

Options :

1. ✘ Front view
2. ✔ Top view
3. ✘ Side view
4. ✘ Both front and top views

Question Number : 70 Question Id : 970 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If both the front and top views of a plane are straight lines, it may be

Options :

1. ✔ perpendicular to both horizontal and vertical planes
2. ✘ parallel to horizontal plane and perpendicular to vertical plane
3. ✘ perpendicular to horizontal plane and parallel to vertical plane

4. ✘ parallel to both horizontal and vertical planes

Question Number : 71 Question Id : 971 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

For orthographic projections, BIS recommends the following projections.

Options :

1. ✘ Fourth-angle projection

2. ✘ Third-angle projection

3. ✔ First-angle projection

4. ✘ Second-angle projection

Question Number : 72 Question Id : 972 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A square lamina perpendicular to the H.P. and inclined to V.P.. Its

Options :

1. ✔ V.T. will be perpendicular to the reference line

2. ✘ H.T. will be parallel to the reference line

3. ✘ V.T. will be parallel to the reference line

4. ✘ V.T. will be inclined to the reference line

Question Number : 73 Question Id : 973 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A force gives a certain mass an acceleration  $a$ . If the force is doubled and the mass is reduced to half of its original value, the acceleration becomes

Options :

1. ✘  $a$

2. ✘  $2a$

3. ✔  $4a$

4. ✘  $6a$

Question Number : 74 Question Id : 974 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Let  $F_1$  and  $F_2$  be the force between two bodies separated by a distance  $d$  and  $2d$  respectively. Then  $F_2 / F_1$  is

Options :

1. ✘ 2

2. ✘ 1/2

3. ✘ 4

4. ✔ 1/4.

Question Number : 75 Question Id : 975 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The time taken to perform 320 J of work at a rate of 64 W is

Options :

1. ✘ 0.2 s

2. ✔ 5 s

3. ✘ 10 s

4. ✘ 64 s.

Question Number : 76 Question Id : 976 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Radha uses a source A of frequency  $f$  and Meera uses another source B of frequency  $2f$  to produce sound waves in a school science laboratory. Let  $\lambda_A$  and  $\lambda_B$  represent the wavelength of waves produced by the sources A and B respectively. Then  $\lambda_B / \lambda_A$  is

Options :

1. ✘ 1

2. ✘ 2

3. ✔ 0.5

4. ✘ 4.

Question Number : 77 Question Id : 977 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An object is placed at a distance less than one focal length from a thin convex lens. Which of the following best describes the image formed?

Options :

1. ✔ Erect, virtual and enlarged

2. ✘ Erect, virtual and diminished

3. ✘ Inverted, real and enlarged

4. ✘ Inverted, real and diminished.

Question Number : 78 Question Id : 978 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When two identical resistors are connected in series across a battery, the power dissipated is 10 W. If these resistors are connected in parallel across the same battery, the total power dissipated will be

Options :

1. ✘ 10 W
2. ✘ 20 W
3. ✔ 40 W
4. ✘ 80 W

Question Number : 79 Question Id : 979 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following chemical equation represents the reaction of roasting process?

Options :

1. ✘  $\text{ZnCO}_3 \rightarrow \text{ZnO} + \text{CO}_2$
2. ✘  $\text{ZnO} + \text{C} \rightarrow \text{Zn} + \text{CO}$
3. ✔  $2\text{CuS} + \text{O}_2 \rightarrow 2\text{CuO} + 2\text{SO}_2$
4. ✘  $\text{Cu} + \text{O}_2 \rightarrow 2\text{CuO}$

Question Number : 80 Question Id : 980 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The charges on aluminum and sulphate ions are +3 and -2 respectively. The correct molecular formula of aluminum sulphate is

Options :

1. ✘  $\text{AlSO}_4$
2. ✘  $\text{Al}_3(\text{SO}_4)_2$
3. ✘  $\text{Al}_2(\text{SO}_4)_3$
4. ✔  $\text{Al}_2(\text{SO}_4)_3$

Question Number : 81 Question Id : 981 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Corrosion of iron is

Options :

1. ✘ Protection of its surface from atmospheric gases
2. ✘ A physical change
3. ✔ a process of oxidation
4. ✘ a process of Reduction

Question Number : 82 Question Id : 982 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following set of elements is written in increasing order of their atomic radii?

Options :

1. ✘ K Na Li
2. ✘ Br F Cl
3. ✘ O F Cl
4. ✔ O N P

Question Number : 83 Question Id : 983 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following is an amphoteric oxide?

Options :

1. ✘  $\text{Na}_2\text{O}$
2. ✘  $\text{SO}_3$
3. ✘  $\text{Ag}_2\text{O}$
4. ✔  $\text{ZnO}$

Question Number : 84 Question Id : 984 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which reaction of an alcohol would produce a sweet smelling compound?

Options :

1. ✔ Esterification
2. ✘ Addition
3. ✘ Decomposition
4. ✘ Dehydration

Question Number : 85 Question Id : 985 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which statement about viruses is not true?

Options :

1. ✘ Contain DNA
2. ✘ Are used for Genetic Engineering
3. ✘ Some cause diseases
4. ✔ Are living organisms

Question Number : 86 Question Id : 986 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

From which chamber of the heart does Pulmonary artery carry blood to the lungs?

Options :

1. ✘ Left Ventricle
2. ✘ Left Atrium
3. ✘ Right Atrium
4. ✔ Right Ventricle

Question Number : 87 Question Id : 987 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A layer of gas prevents solar radiations to go back into space and causes Global Warming. Which gas is it?

Options :

1. ✘ Oxygen
2. ✔ Carbon dioxide
3. ✘ Sulphur dioxide
4. ✘ Nitrogen

Question Number : 88 Question Id : 988 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Who gave the 'Laws of Inheritance' and is considered as 'The Father of Genetics' ?

Options :

1. ✔ Gregor Johann Mendel
2. ✘ Charles Darwin
3. ✘ Isaac Newton
4. ✘ James Watson

Question Number : 89 Question Id : 989 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The time taken by the fetus (developing embryo) to complete development inside the mother's womb is approximately

Options :

1. ✘ 6 months
2. ✘ 8 months 10 days
3. ✔ 280 days
4. ✘ 320 days

Question Number : 90 Question Id : 990 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

After food is synthesized by the leaves of the plant, it reaches other parts of the plant through

Options :

1. ✘ Xylem
2. ✔ Phloem
3. ✘ cell to cell by osmosis
4. ✘ cell to cell by diffusion

Question Number : 91 Question Id : 991 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The HCF of two numbers is 12 and their LCM is 72. If one number is 48, the other number is

Options :

1. ✘ 18
2. ✘ 24
3. ✘ 36
4. ✔ Data is inconsistent

Question Number : 92 Question Id : 992 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The largest number which divides by 125 and 187, leaving remainders 5 and 7 respectively is

Options :

1. ✔ 60
2. ✘ 30
3. ✘ 20
4. ✘ 10

Question Number : 93 Question Id : 993 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $a : b = 5 : 12$  and  $b : c = 8 : 5$ , then  $a : c$  is

Options :

1. ✘ 3 : 2
2. ✔ 2 : 3
3. ✘ 1 : 1
4. ✘ 4 : 5



Question Number : 94 Question Id : 994 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 27, 12, 24,  $x$  are in proportion, then  $x$  is equal to

Options :

1.  9
2.  30
3.  54
4.  60

For the above question, User had specified 'ignore' during keys upload.

Question Number : 95 Question Id : 995 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Successive discounts of 30% and 20% are equivalent to a single discount of

Options :

1.  40%
2.  44%
3.  45%
4.  50%

Question Number : 96 Question Id : 996 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In how many years rupees 500 will amount to rupees 800 at simple interest of 10 % per year?

Options :

1.  6
2.  8
3.  10
4.  16

Question Number : 97 Question Id : 997 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Compound interest on ₹ 16000 for 1 year at 10% per annum compounded half yearly is

Options :

1.  1600
2.  1640
3.  1680
4.  3360

Question Number : 98 Question Id : 998 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If C.P. of 15 articles is equal to S.P. of 12 articles, then in the whole transaction there is a

Options :

1. ✘ Loss of 25%
2. ✘ Loss of 20%
3. ✔ Profit of 25%
4. ✘ Profit of 20%

Question Number : 99 Question Id : 999 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

To gain 20% after allowing a discount of 5%, the shopkeeper should mark the price of the article which cost him ₹ 950 as

Options :

1. ✘ ₹ 1000
2. ✘ ₹ 1100
3. ✔ ₹ 1200
4. ✘ ₹ 1300

Question Number : 100 Question Id : 1000 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 60 kg of sugar which costs him ₹ 20 per kg with 40 kg of sugar which costs him ₹ 25 per kg.. He sells the mixture at ₹ 26 per kg. His gain percent is

Options :

1. ✔  $\frac{200}{11}\%$
2. ✘  $\frac{300}{11}\%$
3. ✘  $\frac{200}{13}\%$
4. ✘  $\frac{300}{13}\%$

Question Number : 101 Question Id : 1001 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In two vessels A and B, the spirit and water are in the ratio of 7 : 2 and 5 : 3 respectively. The ratio in which these are mixed to obtain new mixture which contains spirit and water in the ratio 5 : 2 is

Options :

1. ✘ 9 : 8
2. ✘ 8 : 9
3. ✘ 21 : 10
4. ✔ 45 : 32

Question Number : 102 Question Id : 1002 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Speed of a boat in still water is 15 km/h. the speed of the stream is 3 km/h.  
The time taken to go 6 km upstream in minutes is

Options :

1. ✘ 20
2. ✔ 30
3. ✘ 24
4. ✘ 25

Question Number : 103 Question Id : 1003 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A train 120 m long is moving at 40 km/h. The time in seconds, it will take to  
pass another train 100 m long which is moving at 32 km/h in the opposite direction  
from the moment they meet is

Options :

1. ✔ 11
2. ✘ 22
3. ✘ 44
4. ✘ 88

Question Number : 104 Question Id : 1004 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A can do a piece of work in 20 day and B can do the same work in 30 days. If  
they work together, the number of days required to do the same work is

Options :

1. ✘ 18
2. ✘ 16
3. ✘ 14
4. ✔ 12

Question Number : 105 Question Id : 1005 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

P and Q can do a piece of work in 10 days, Q and R in 12 days and R and P in  
15 days. In how many days R alone can do the same work?

Options :

1. ✘ 70
2. ✘ 60
3. ✔ 40
4. ✘ 30

Question Number : 106 Question Id : 1006 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The average of squares of first five whole numbers is

Options :

1. ✔ 6
2. ✘ 7.5
3. ✘ 9
4. ✘ 11

Question Number : 107 Question Id : 1007 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The average of 21 observations is 40. Out of these observations the average of first 11 observations is 38 and the last 11 observations is 41. The 11<sup>th</sup> observation is

Options :

1. ✘ 19
2. ✘ 20
3. ✔ 29
4. ✘ 39

Question Number : 108 Question Id : 1008 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The first term of an AP is 18 and third term is 10. Its 21<sup>st</sup> term is

Options :

1. ✘ 98
2. ✘ 62
3. ✘ - 98
4. ✔ - 62

Question Number : 109 Question Id : 1009 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The third term of a G.P. is 16 and sixth term is - 128. The common ratio of the G.P. is

Options :

1. ✘ 2
2. ✔ - 2

3. ✘ 4

4. ✘ - 4

Question Number : 110 Question Id : 1010 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle of elevation of the top of a tower from a point on the ground which is 30 m away from the foot of the tower is  $45^\circ$ . The height of the tower is

Options :

1. ✘ 15 m

2. ✘  $10\sqrt{3}$  m

3. ✔ 30 m

4. ✘  $30\sqrt{3}$  m

Question Number : 111 Question Id : 1011 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

From a point on the bridge across a river the angle of depressions of the bank on the opposite side of the river are  $30^\circ$  and  $60^\circ$  respectively. If the bridge is at a height of 3 m from the bank, the width of the river is

Options :

1. ✔  $4\sqrt{3}$  m

2. ✘  $2(\sqrt{3} + 1)$  m

3. ✘  $2(\sqrt{3} + 3)$  m

4. ✘  $2\sqrt{3}$  m

Question Number : 112 Question Id : 1012 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $(x + 2)$  is a factor of  $x^4 - 4x^2 + 3ax - 12$ , then  $a$  is equal to

Options :

1. ✘ 2

2. ✔ - 2

3. ✘  $\frac{10}{3}$

4. ✘  $-\frac{10}{3}$

Question Number : 113 Question Id : 1013 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the factor of  $(121x^2 - 1) + (1 + 11x)^2$  is

Options :

1. ✘  $(11 + x)$

2. ✘  $(11 - x)$

3. ✘  $(11x - 1)$

4. ✔  $22x$

Question Number : 114 Question Id : 1014 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

All values of  $k$  for which  $x^2 + kx + 25 = 0$  has real roots is

Options :

1. ✔  $5 \leq k \leq -5$

2. ✘  $-5 \leq k \leq 5$

3. ✘  $k \geq 5$

4. ✘  $k \geq -5$

Question Number : 115 Question Id : 1015 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum and product of the roots of the equation  $x^2 - x - 4 = 0$  are respectively

Options :

1. ✘ 4, 1

2. ✘ 1, 4

3. ✘ -4, 1

4. ✔ 1, -4

Question Number : 116 Question Id : 1016 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

With which game is the Ranji Trophy associated?

Options :

1. ✘ Football

2. ✘ Hockey

3. ✔ Cricket

4. ✘ Basket ball

Question Number : 117 Question Id : 1017 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In women's tennis records, which of the following is an unmatched pair of champion and championship Trophy won by her

Options :

1. ✔ Li Na : Wimbledon

2. ✘ Serene Williams : Australian Open

3. ✘ Maria Sharapova : French Open

4. ✘ Samantha Stosur : US Open

Question Number : 118 Question Id : 1018 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

How many states does India have, and which is the last one to get statehood?

Options :

1. ✔ 29 : Telengana

2. ✘ 24 : Delhi

3. ✘ 22 : Lakshadweep

4. ✘ 30 : Uttaranchal

Question Number : 119 Question Id : 1019 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Of which political party is Mamata Banerjee the leader?

Options :

1. ✘ Bahujan Samaj Party

2. ✔ Trinamool Congress

3. ✘ Forward Block

4. ✘ Communist Party (Marxist)

Question Number : 120 Question Id : 1020 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following statement is not true regarding the second five year plan of India?

Options :

1. ✘ The plan was based on the Mahalanobis model of economic development, the architect of which was the Indian statistician PC Mahalanobis

2. ✘ The second five year plan was operational from 1956 -1961

3. ✘ The plan assumed a closed economy in which the main trading activity would be centered around importing capital goods

4. ✔ The plan also focused on agriculture, that being the main sector on which the largest chunk of our population depended

Question Number : 121 Question Id : 1021 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is 'The Euro?'

Options :

1. ✓ The single European currency
2. ✗ The citizens of Europe
3. ✗ Name of a European T.V company
4. ✗ Abbreviation for 'European Union'

Question Number : 122 Question Id : 1022 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

To abide by the Constitution and respect its ideals and institutions is a

Options :

1. ✗ Fundamental Right
2. ✓ Fundamental duty
3. ✗ Human Right
4. ✗ Natural desire

Question Number : 123 Question Id : 1023 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

What does Universal Adult Franchise mean?

Options :

1. ✗ All adults who have completed 21 years of age have the right to participate in the electoral process
2. ✗ Candidate aspiring to be member of legislative assembly should at least be 25 years old
3. ✗ A girl cannot marry till she attains age of 18 and boy till he is 21
4. ✓ Any citizen of India 18 years of age or above can vote irrespective of race, caste, religion, sex, place of birth

Question Number : 124 Question Id : 1024 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Decibel is the unit of

Options :

1. ✗ Speed of light
2. ✗ Intensity of heat
3. ✓ Intensity of sound
4. ✗ Quantum of mass

Question Number : 125 Question Id : 1025 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



One early morning, with no traffic on roads, Rahul while cycling down from Red Fort to his residence noted the distance covered and the total time taken to reach home. What can he calculate from this data?

Options :

1. ✘ Velocity
2. ✔ Speed
3. ✘ Acceleration
4. ✘ Displacement

Question Number : 126 Question Id : 1026 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Who founded the Ramakrishna Mission?

Options :

1. ✘ Ramakrishna Paramahansa
2. ✘ Saradamani
3. ✔ Swami Vivekananda
4. ✘ Rani Rashmoni

Question Number : 127 Question Id : 1027 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which pair out of the following is radioactive as available abundantly?

Options :

1. ✘ Lead & Mercury
2. ✔ Radium & Uranium
3. ✘ Sodium & Potassium
4. ✘ Carbon & Silicon

Question Number : 128 Question Id : 1028 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Sun's energy does not get converted into

Options :

1. ✘ biomass
2. ✘ wind power
3. ✔ nuclear energy
4. ✘ energy from oceanic waves

Question Number : 129 Question Id : 1029 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The unit for measurement of energy is

Options :

1. ✘ Pascal
2. ✔ Joule
3. ✘ Calorie
4. ✘ Horse power

Question Number : 130 Question Id : 1030 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

After First World War political movement named fascism arose. Out of the following statements which one is not true of fascism

Options :

1. ✘ Dictatorship introduced in Italy by Mussolini is called fascism
2. ✘ German version of fascism is referred to as Nazism
3. ✔ Fascists were not hostile to democracy and socialism
4. ✘ Adolf Hitler was a fascist

Question Number : 131 Question Id : 1031 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Energy experts predict that many countries will face severe electricity blackouts very soon because

Options :

1. ✘ Demand would surpass supply
2. ✘ World's natural oil supply is fixed
3. ✘ Electrical supply is fast being eroded by terrorists in many parts of the world
4. ✔ Greater demand for energy and extreme depletion of oil and natural gas

Question Number : 132 Question Id : 1032 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which is the correct difference between topography and landscape

Options :

1. ✔ Topography is natural, landscape is the handiwork of humans
2. ✘ Topography is of diverse kinds, landscaping is not
3. ✘ Landscape is determined by nature, topography by humans
4. ✘ Himalayas and Thar desert are part of landscape of India, sea beach is topographical

Question Number : 133 Question Id : 1033 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

When both kidneys in a patient fail to work, he/she may survive by undergoing

Options :

1. ✘ Kidney transplant only
2. ✘ Dialysis only
3. ✔ Dialysis or Kidney Transplant
4. ✘ It is not possible to survive if kidneys fail

Question Number : 134 Question Id : 1034 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

How can a food chain comprising grass, goat and humans be correctly represented?

Options :

1. ✘ Grass → goat ← humans
2. ✘ Grass ← goat ← humans
3. ✔ Grass → goat → humans
4. ✘ Humans → goat → grass

Question Number : 135 Question Id : 1035 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Every cell of human body has a nucleus except

Options :

1. ✘ Liver cells
2. ✘ Kidney cells
3. ✔ Red blood corpuscles
4. ✘ Brain cells

Question Number : 136 Question Id : 1036 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Many ancient monuments have been spoilt by acid rain which is

Options :

1. ✘ Rain water containing nitrogenous compounds like ammonia
2. ✘ Rain water with pH 8
3. ✘ Rain drops which are corrosive due to presence of Hydrochloric acid
4. ✔ Rain with highly acidic pH due to presence of pollutants like oxides of Nitrogen and Sulphur

Question Number : 137 Question Id : 1037 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

What is not true about the Jan Dhan Yojana of PM Narendra Modi?

Options :

- It is a scheme aiming to accomplishing the objective of providing banking
1. ✘ accounts with a debit card
  2. ✔ Scheme of opening ATM banking for all accounts new and old
  3. ✘ It has the facility of overdraft upto Rs. 5000/- for Aadhar Card linked accounts
  4. ✘ It has inbuilt accident insurance

Question Number : 138 Question Id : 1038 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Select the appropriate information about cartels.

Options :

- Cartels are group of nations getting together to decide on price & quantity of a
1. ✔ commodity.
  2. ✘ Every country has many cartels.
  3. ✘ Group of individuals can also form cartels.
  4. ✘ Cartels can also be formed by a group of industries

Question Number : 139 Question Id : 1039 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

What is meant by 'Wholesale Price'?

Options :

1. ✔ Price of goods at factory gate
2. ✘ Price of a basket of goods and services
3. ✘ Minimum price fixed for import of a commodity
4. ✘ Maximum price fixed for export of a commodity

Question Number : 140 Question Id : 1040 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which Mughal emperor proclaimed Deen-e-Ilahi or Divine Faith?

Options :

1. ✘ Babar
2. ✘ Humayun
3. ✘ Shahjahan
4. ✔ Akbar

Question Number : 141 Question Id : 1041 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

B is married to D who is the daughter of C. C is the father of E who is the brother of A.

How is B related to A?

Options :

1.  brother-in-law
2.  cousin
3.  father-in-law
4.  uncle

Question Number : 142 Question Id : 1042 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way.

The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

60 : 120 :: 210 : ?

Options :

1.  316
2.  327
3.  336
4.  430

Question Number : 143 Question Id : 1043 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The two words on the left side of the sign '::' are related in a certain way. The same relationship holds for the second pair of words on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

Students : Classroom :: Athletes : ?

Options :

1.  Team
2.  Stadium
3.  Track
4.  Sports

Question Number : 144 Question Id : 1044 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Four boys A, B, C and D and four girls E, F, G and H are sitting around a round table. No two girls are sitting next to each other. D is sitting next to F and is facing A. B is between F and G who is facing H.

Who among the following are sitting next to each other?

Options :

1. ✘ HA
2. ✘ AF
3. ✘ DG
4. ✔ EC

Question Number : 145 Question Id : 1045 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Table    2. Plant    3. Study    4. Seed    5. Tree    6. Wood

Options :

1. ✘ 4, 2, 5, 6, 3, 1
2. ✘ 4, 2, 6, 5, 1, 3
3. ✔ 4, 2, 5, 6, 1, 3
4. ✘ 2, 5, 4, 1, 6, 3

Question Number : 146 Question Id : 1046 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The numbers in each group are related in a certain way. Choose the correct number from among the alternatives that will replace the question mark.

$$(2 [ 8 ] 4) \quad (7 [ 27 ] 10) \quad (5 [ ? ] 9)$$

Options :

1. ✔ 64
2. ✘ 55
3. ✘ 25
4. ✘ 16

Question Number : 147 Question Id : 1047 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In a certain language, '732' means 'go to school'; '4693' means 'school celebrates national days'; and '19584' means 'national days are country's pride'.

Which digit means 'celebrates' in that language?

Options :

1. ✘ 3
2. ✔ 6

3. ✘ 1

4. ✘ 9

Question Number : 148 Question Id : 1048 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 'POSTER' is coded as 'SDSRNO', then 'DIRECT' will be coded as:

Options :

1. ✘ SBDQCH

2. ✘ CHQDBS

3. ✘ UDFSJE

4. ✔ SBDQHC

Question Number : 149 Question Id : 1049 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Prakash walks 4 km towards West, turns left and walks 5 km. He then turns right and walks 8 km. Finally he turns right and walks 10 km, How far is he from the starting point?

Options :

1. ✘ 5 km

2. ✔ 13 km

3. ✘ 15 km

4. ✘ 17 km

Question Number : 150 Question Id : 1050 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The numbers in the matrix given below follow a certain trend row-wise and and/or column wise. Study the trend and choose the number which will replace the question mark?

3	5	7
6	15	28
18	60	?

Options :

1. ✘ 102

2. ✘ 112

3. ✔ 140

4. ✘ 196

# Railway Recruitment Board

## Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

<b>Question Paper Name:</b>	Junior Engineer 27th Aug Shift 3 Actual
<b>Subject Name:</b>	Junior Engineer
<b>Creation Date:</b>	2015-08-18 12:45:52.0
<b>Cut Off:</b>	0
<b>Duration:</b>	120
<b>Number of Questions:</b>	150
<b>Total Marks:</b>	150.0

## Junior Engineer

Group Number :	1
Group Id :	6
Group Maximum Duration :	0
Group Minimum Duration :	120
Revisit allowed for view? :	No
Revisit allowed for edit? :	No
Break time:	0
Group Marks:	150.0

## Junior Engineer

Section Id :	6
Section Number :	1
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	150
Number of Questions to be attempted:	150
Section Marks:	150.0

Sub-Section Number:	1
Sub-Section Id:	6
Question Shuffling Allowed :	Yes

**Question Number : 1 Question Id : 1051 Question Type : MCQ Option Shuffling : No Correct : 1.0 Wrong : 0.33**

Work done in a free expansion process is

## Options :

- ✓ Zero
- ✗ Positive



3. ✘ Negative

4. ✘ Maximum

Question Number : 2 Question Id : 1052 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The internal energy of an ideal gas is

Options :

1. ✔ A function of temperature only

2. ✘ A function of pressure

3. ✘ A function of volume

4. ✘ Both pressure and volume

Question Number : 3 Question Id : 1053 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The process in which no heat enters or leaves the system is called

Options :

1. ✘ Isobaric

2. ✘ Isothermal

3. ✔ Isentropic

4. ✘ Isochoric

Question Number : 4 Question Id : 1054 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Ignition quality of diesel fuel is indicated by

Options :

1. ✘ Octane number

2. ✔ Cetane number

3. ✘ Raynolds number

4. ✘ Mach number

Question Number : 5 Question Id : 1055 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In Spark ignition engine, fuel used is

Options :

1. ✘ Diesel

2. ✔ Petrol

3. ✘ Kerosene

4. ✘ Both Diesel and kerosene

Question Number : 6 Question Id : 1056 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The heat flow through solids only by

Options :

1. ✔ Conduction

2. ✘ Convection

3. ✘ Radiation

4. ✘ Does not flow

Question Number : 7 Question Id : 1057 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A perfect black body is

Options :

1. ✘ One which absorbs total radiant energy

2. ✘ Black in colour

3. ✘ One which does not reflect the radiant energy

4. ✔ One which absorbs all radiant energy at all wavelengths

Question Number : 8 Question Id : 1058 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Weld spatter is a welding defect due to

Options :

1. ✘ Lack of flux

2. ✔ High welding current

3. ✘ High welding speed

4. ✘ Dirty metal surface

Question Number : 9 Question Id : 1059 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

During arc welding, eyes need to be protected against

Options :

1. ✘ Intense glare

2. ✘ Microwave
3. ✘ High frequency waves
4. ✔ Ultraviolet and infrared radiation

Question Number : 10 Question Id : 1060 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Lathe bed is usually made of

Options :

1. ✘ Mild steel
2. ✔ Cast iron
3. ✘ High speed steel
4. ✘ Alloy steel

Question Number : 11 Question Id : 1061 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Extrusion is the process of

Options :

1. ✘ Producing holes by arc
2. ✘ Metal shaping on presses
3. ✔ Pushing the heated billet of metal through the orifice
4. ✘ Welding two dissimilar metals

Question Number : 12 Question Id : 1062 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A third flask sometimes used between cope and drag is called

Options :

1. ✘ Middle
2. ✘ Core
3. ✘ Fillet
4. ✔ Cheek

Question Number : 13 Question Id : 1063 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Gears in mass production is produced by

Options :

1. ✘ Milling

2. ✘ Shaping
3. ✔ Hobbing
4. ✘ Forming

Question Number : 14 Question Id : 1064 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

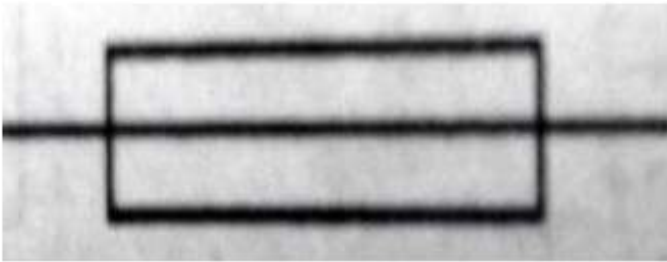
Scab is a

Options :

1. ✔ Sand casting defect
2. ✘ Machining defect
3. ✘ Welding defect
4. ✘ Forging defect

Question Number : 15 Question Id : 1065 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The following symbol depicts



Options :

1. ✘ Relay
2. ✘ Lightning arrester
3. ✔ Fuse
4. ✘ Circuit Breaker

Question Number : 16 Question Id : 1066 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Thermal relay works on the principle of

Options :

1. ✔ Heating effect of current
2. ✘ Flow of current in the circuit
3. ✘ Ohm's Law
4. ✘ Electromagnetic Induction

Question Number : 17 Question Id : 1067 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is not a part of a DC machine?

Options :

1.  Stabilizer
2.  Stator
3.  Commutator
4.  Armature

Question Number : 18 Question Id : 1068 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The type of transformer used in a Stabilizer is

Options :

1.  Power Transformer
2.  Auto Transformer
3.  Current Transformer
4.  Distribution Transformer

Question Number : 19 Question Id : 1069 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Safety relay used in a transformer acts as

Options :

1.  Temperature Gauge
2.  Explosion Vent
3.  Buchholz Relay
4.  Earthing Point

Question Number : 20 Question Id : 1070 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The value of slip of an induction motor at synchronous speed is

Options :

1.  zero
2.  infinite
3.  unity
4.  cannot be determined

Question Number : 21 Question Id : 1071 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The motor used in electrical shaving machines is

Options :

1.  Universal motor
2.  Shaded pole motor
3.  Capacitor motor
4.  Reluctance motor

Question Number : 22 Question Id : 1072 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Economiser used in power plants is used to heat

Options :

1.  flue gases
2.  intake air
3.  steam
4.  feed water

Question Number : 23 Question Id : 1073 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is a high head turbine

Options :

1.  Propeller turbine
2.  Francis turbine
3.  Kaplan turbine
4.  Pelton wheel turbine

Question Number : 24 Question Id : 1074 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A 4 ohm resistor is connected in a circuit containing 4 V supply. The current drawn is

Options :

1.  8 A
2.  4 A
3.  1 A
4.  16 A

Question Number : 25 Question Id : 1075 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following rectifiers can withstand maximum voltage on DC side

Options :

1. ✘ Mercury bulb rectifier
2. ✘ Glass bulb rectifier
3. ✔ Steel tank rectifier
4. ✘ Varactor diode

Question Number : 26 Question Id : 1076 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In an arc rectifier, the drop in voltage at the cathode is approximately

Options :

1. ✘ 1 volt
2. ✔ 6 to 7 volts
3. ✘ 60 to 70 volts
4. ✘ 1.2 to 7 volts

Question Number : 27 Question Id : 1077 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following converts sound waves into AF signals

Options :

1. ✘ loudspeaker
2. ✘ antenna
3. ✘ rectifier
4. ✔ microphone

Question Number : 28 Question Id : 1078 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following gives noiseless reception

Options :

1. ✘ amplitude modulation
2. ✘ phase modulation
3. ✔ frequency modulation
4. ✘ amplitude or phase modulation

Question Number : 29 Question Id : 1079 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The basic logic gate whose output is the complement of the input is

Options :

1. ✘ OR gate
2. ✘ AND gate
3. ✔ INVERTER gate
4. ✘ XOR gate

Question Number : 30 Question Id : 1080 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The most commonly used semiconductor material is

Options :

1. ✔ silicon
2. ✘ carbon
3. ✘ germanium
4. ✘ phosphorus

Question Number : 31 Question Id : 1081 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

For a P-N junction diode, the current in reverse bias may be

Options :

1. ✘ few amperes
2. ✘ few milliamperes
3. ✘ between 0.5 A to 1 A
4. ✔ few microamperes to nanoamperes

Question Number : 32 Question Id : 1082 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A full wave bridge rectifier is supplied voltage at 50 Hz. The lowest ripple frequency will be

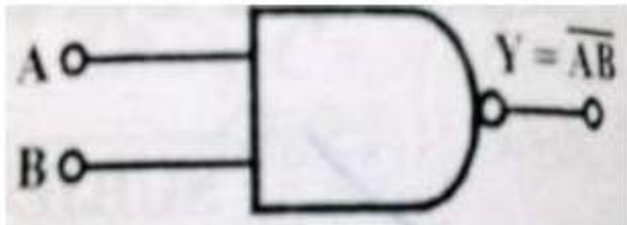
Options :

1. ✘ 400 Hz
2. ✘ 200 Hz
3. ✔ 100 Hz
4. ✘ 50 Hz

Question Number : 33 Question Id : 1083 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33



Identify the following logic gate



Options :

1. ✘ AND gate
2. ✘ OR gate
3. ✔ NAND gate
4. ✘ NOT gate

Question Number : 34 Question Id : 1084 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The forbidden energy gap for germanium is

Options :

1. ✘ 0.12 eV
2. ✔ 0.72 eV
3. ✘ 1.11 eV
4. ✘ 1.52 eV

Question Number : 35 Question Id : 1085 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The term nominal stress in stress-strain curve for mild steel implies

Options :

1. ✔ Average stress
2. ✘ Actual stress
3. ✘ Yield stress
4. ✘ Stress at necking

Question Number : 36 Question Id : 1086 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Inorganic soil with low compressibility is represented by

Options :

1. ✘ MH

2. ✘ SL

3. ✔ ML

4. ✘ CH

Question Number : 37 Question Id : 1087 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Minimum grade of concrete to be used in reinforced concrete is

Options :

1. ✘ M 10

2. ✘ M 15

3. ✔ M 20

4. ✘ M 25

Question Number : 38 Question Id : 1088 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which one of following is a compression member?

Options :

1. ✘ Purlin

2. ✔ Boom

3. ✘ Girt

4. ✘ Tie

Question Number : 39 Question Id : 1089 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Absolute pressure in flow system

Options :

1. ✘ is always above local atmospheric pressure

2. ✘ is equal to a vacuum pressure

3. ✔ May be above, below or equal to the local atmospheric pressure

4. ✘ is also called negative pressure

Question Number : 40 Question Id : 1090 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Gantt charts indicate

Options :

1.  Comparison of actual progress with the scheduled progress
2.  Balance of work to be done
3.  Progressive cost of project
4.  Inventory costs

Question Number : 41 Question Id : 1091 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

As per Indian Standard specifications, concrete is designated into

Options :

1.  3 grades
2.  5 grades
3.  7 grades
4.  10 grades

Question Number : 42 Question Id : 1092 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

First class timber has an average life of

Options :

1.  Less than one year
2.  1 to 5 years
3.  5 to 10 years
4.  More than 10 years

Question Number : 43 Question Id : 1093 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Equation of continuity is based on the principle of conservation of

Options :

1.  Mass
2.  Energy
3.  Momentum
4.  Time

Question Number : 44 Question Id : 1094 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The instrument used for accurate centering in plane table survey is

Options :

1.  Spirit level

2. ✘ Alidade
3. ✔ Plumbing fork
4. ✘ Through compass

Question Number : 45 Question Id : 1095 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A series of closely spaced contour lines represents a





Options :

1. ✔ Steep slope
2. ✘ Gentle slope
3.  Uniform slope
4.  Plane surface

Question Number : 46 Question Id : 1096 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

After storage, the strength of cement





Options :

1.  Decreases
2.  Increases
3.  Remains same
4.  May increase or decrease

Question Number : 47 Question Id : 1097 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The pointer of an indicating instrument should be

Options :

1.  very light
2.  very heavy
3.  either light or heavy
4.  neither light nor heavy

Question Number : 48 Question Id : 1098 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In majority of instruments, damping is provided by

Options :

- fluid friction
- spring
- eddy currents
- both spring and fluid friction

Question Number : 49 Question Id : 1099 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

An ammeter is a

Options :

- secondary instrument
- absolute instrument
- recording instrument
- integrating instrument

Question Number : 50 Question Id : 1100 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The function of shunt in an ammeter is to

Options :


- by pass the current
- increase the sensitivity of the ammeter
- increase the resistance of ammeter
- either increasing sensitivity of ammeter or by passing current

Question Number : 51 Question Id : 1101 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The multiplier and the meter coil in a voltmeter are in

Options :

- series
- parallel
- series-parallel

4.  bi- junction mode


Question Number : 52 Question Id : 1102 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The value of peak factor considered in the estimation of water demand for the population of 1,00,000 is

Options :

1.  2.25

2.  2.50

3.  2.75


4.  3.00

Question Number : 53 Question Id : 1103 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33


A water borne disease may be controlled by

Options :

1.  disinfection of water

2.  sterilization of water

3.  demineralization of water


4.  desalination of water


Question Number : 54 Question Id : 1104 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33


The colour in water is determined using instrument called

Options :

1.  spectrophotometer

2.  photometer

3.  tintometer

4.  atomic adsorption spectrophotometer

Question Number : 55 Question Id : 1105 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The high concentration level of ozone affects the vegetation and the colour of the affected part of leaf becomes

Options :

1.  silver
2.  black
3.  colourless
4.  brown

Question Number : 56 Question Id : 1106 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The unit of sound pressure level, dBA is defined as

Options :

1.  summation of measured and reference sound pressure level
2.  ratio of measured to reference sound pressure levels
3.  ratio of measured to reference sound pressure levels in logarithmic scale
4.  product of measured to reference sound pressure levels

Question Number : 57 Question Id : 1107 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The presence of ozone is considered to be boon for humanity in

Options :

1.  troposphere
2.  stratosphere
3.  mesosphere
4.  ionosphere

Question Number : 58 Question Id : 1108 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Joystick is a(an) \_\_\_\_\_

Options :

1.  Input device

2.  Output device
3.  Storage device
4.  Both input and output device

Question Number : 59 Question Id : 1109 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following is not true about Cache memory?

Options :

1.  Faster memory than RAM
2.  Volatile memory
3.  Smaller in size than RAM
4.  Sequential access memory

Question Number : 60 Question Id : 1110 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Which of the following statement is not true?

Options :

1.  Data bus is bidirectional
2.  Address bus is bidirectional
3.  Address bus is unidirectional
4.  Same data bus is used for both read and write operations

For the above question, User had specified 'ignore' during keys upload.

Question Number : 61 Question Id : 1111 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

EBCDIC coding scheme uses \_\_\_\_\_ bits to code different characters.

Options :

1.  4
2.  8
3.  16
4.  32



Question Number : 62 Question Id : 1112 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The hexadecimal representation of 125.25 is \_\_\_\_\_

Options :

1.  (7D.40)<sub>16</sub>
2.  (7D.04)<sub>16</sub>
3.  (D7.40)<sub>16</sub>
4.  (D7.04)<sub>16</sub>

Question Number : 63 Question Id : 1113 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Considering X as a binary variable, the Boolean expression  $X.X'$  is equivalent to

Options :

1.  X
2.  1
3.  0
4.  X'

Question Number : 64 Question Id : 1114 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The 2's compliment of the binary number  $(10101010)_2$  is

Options :

1.   $(10000000)_2$
2.   $(00000000)_2$
3.   $(01010110)_2$
4.   $(10101010)_2$


Question Number : 65 Question Id : 1115 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33


A programming language which enables a programmer to write programs that are more or less independent of a particular type of computer is called \_\_\_\_\_

Options :

1.  Assembly language

2.  Machine language

3.  Low-level language

4.  High-level language

Question Number : 66 Question Id : 1116 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Class 'C' IP addresses use \_\_\_\_\_ bits for Network ID.

Options :

1.  8

2.  16

3.  24


4.  32

Question Number : 67 Question Id : 1117 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


W3C stands for \_\_\_\_\_

Options :

1.  World Wide Web Consortium

2.  World Wide Web Community

3.  World Wide Websites Consortium

4.  World Wide Websites Community


Question Number : 68 Question Id : 1118 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


Angle is measured by

Options :

1.  plain scale

2.  comparative scale

3.  scale of chords

4.  diagonal scale

Question Number : 69 Question Id : 1119 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a line is parallel to V.P. and inclined to H.P., its true length will be seen in

Options :

1.  Side view
2.  Top view
3.  Both front and top views
4.  Front view

Question Number : 70 Question Id : 1120 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If a circular plane is inclined at  $60^{\circ}$  with the H.P. and  $30^{\circ}$  with the V.P., its side view will be

Options :

1.  a circle
2.  a straight line
3.  an ellipse
4.  true shape

Question Number : 71 Question Id : 1121 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The exact value of R.F. on an isometric scale is

Options :

1.  0.815
2.  0.8165
3.   $(2/3)^{1/2}$
4.  9/11

Question Number : 72 Question Id : 1122 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The eccentricity of an ellipse is

Options :

1.  =1

2.   $<1$

3.   $>1$

4.   $=0$

Question Number : 73 Question Id : 1123 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A force acting on a body of mass 1.5 kg, accelerates it from rest to a velocity of 4 m/s.  
The change in the momentum of the body is

Options :

1.  1.5 kg m/s

2.  3.0 kg m/s

3.  4.5 kg m/s

4.  6.0 kg m/s

For the above question, User had specified 'ignore' during keys upload.

Question Number : 74 Question Id : 1124 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Let  $g$  be the acceleration due to gravity on the surface of Earth. The acceleration due to gravity on the surface of Moon is

Options :

1.   $6g$

2.   $g/6$

3.   $g$

4.   $g/3$

Question Number : 75 Question Id : 1125 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The quantity of work equal to one joule is also equivalent to one

Options :

1.  watt x second

2.  watt/second

3.  watt/ second<sup>2</sup>

4.  watt

Question Number : 76 Question Id : 1126 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A source A of frequency  $f$  and another source of frequency  $2f$  are used to produce sound waves in a science laboratory. Let  $v_A$  and  $v_B$  represent the velocity of waves produced by the sources A and B, respectively. Then  $v_B/v_A$  is

Options :

1.  1

2.  2

3.  0.5

4.  4


Question Number : 77 Question Id : 1127 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The size of image formed by a convex lens ( focal length  $f$  ) is equal to the size of the object. The object is placed at a distance

Options :

1.  between  $f$  and  $2f$

2.  greater than  $2f$

3.   $2f$


4.  less than  $f$


Question Number : 78 Question Id : 1128 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33


A 1m long metal wire of radius 1 cm has a resistance of  $1.6 \times 10^{-4} \Omega$ . The resistivity of the metal is

Options :

1.   $5.0 \times 10^{-8} \Omega \text{ m}$

2.   $1.0 \times 10^{-8} \Omega \text{ m}$

3.   $1.6 \times 10^{-8} \Omega \text{ m}$

4.   $3.2 \times 10^{-8} \Omega \text{ m}$

Question Number : 79 Question Id : 1129 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The decreasing order of reactivity of four metals is in the order:  $Zn > Fe > Cu > Ag$ . In view of the order of reactivity, which of the following reaction is feasible?

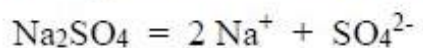
Options :

- $CuSO_4 + 2Ag \rightarrow Ag_2SO_4 + 2Ag$
- $ZnCl_2 + Cu \rightarrow CuCl_2 + Zn$
- $2AgNO_3 + Cu \rightarrow Cu(NO_3)_2 + 2Ag$
- $FeSO_4 + Cu \rightarrow CuSO_4 + Fe$

Question Number : 80 Question Id : 1130 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Sodium sulphate dissociates in water as follows:



What is the total number of ions present in the solution containing one mole of dissolved sodium sulphate in water?

Options :

- $6.023 \times 10^{23}$
- $12.046 \times 10^{46}$
- $18.069 \times 10^{69}$
- $18.069 \times 10^{23}$

Question Number : 81 Question Id : 1131 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following is an endothermic process?

Dissolution of

Options :

- $NH_4Cl$  in water
- $NaOH$  in water
- Quick lime in water
- Sulphuric acid in water

Question Number : 82 Question Id : 1132 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

An organic compound X, molecular mass= 46, undergoes dehydration reaction to yield the compound Y, the first member of olefin homologous series. What is the compound X ?

Options :

1.  Aldehyde
2.  Alcohol
3.  Ester
4.  Carboxylic acid

Question Number : 83 Question Id : 1133 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The values of pH of four different solutions of salts W, X, Y, & Z respectively in water are 6.2, 6.5, 6.8 and 7.5 respectively. Which of them is a basic salt?

Options :

1.  W
2.  X
3.  Y
4.  Z

Question Number : 84 Question Id : 1134 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which one of the following set of elements has the same number of valence electrons?

Options :

1.  Li Be Mg
2.  B Al Si
3.  Li Na K
4.  Li Na Mg

Question Number : 85 Question Id : 1135 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33


Which part of the leaf makes carbon-dioxide available for Photosynthesis?

Options :

1.  Veins

2.  Stomata

3.  Leaf margin

4.  Lower surface of leaf


Question Number : 86 Question Id : 1136 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


Which one of the following cannot be called an ecosystem?

Options :

1.  Pond

2.  Aquarium


3.  Swimming Pool


4.  Agricultural Field


Question Number : 87 Question Id : 1137 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In a food chain who gets the maximum amount of energy?

Options :

1.  Tertiary consumers

2.  Secondary consumers

3.  Primary consumers

4.  Producers

Question Number : 88 Question Id : 1138 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The gland which secretes enzymes as well as hormones is

Options :

1.  Pituitary

2.  Thyroid

3.  Pancreas

4.  Liver



Question Number : 89 Question Id : 1139 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A brown eyed man (BB) married a blue eyed woman (bb). What will be the color of the eyes of their children ? (B gene is dominant, b gene is recessive)

Options :

- All their children will be brown eyed
- All will be blue eyed
- Eye color of all will be a mixture of brown and blue
- 50 % children will have brown eyes and the other 50% will have blue eyes

Question Number : 90 Question Id : 1140 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The Indian thali has (A) chapati or rice (B) dal and (C) green vegetables cooked with very little oil. Which nutrients do A,B, and C have?

Options :

- A=Protein, B=Carbohydrates, C=Fat
- A=Carbohydrates, B=Protein, C=Fat and Vitamins
- A=Fat, B=Protein ,C=Vitamins
- A=Vitamins, B=Carbohydrates=Fat

Question Number : 91 Question Id : 1141 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The HCF and LCM of 16 and 25 are respectively

Options :

- 0,400
- 1,400
- 1,25
- 16,25

Question Number : 92 Question Id : 1142 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The least number which when divided by 8 and 12 leaving remainder 5 in each case is

Options :

1.  19

2.  29

3.  91

4.  101

Question Number : 93 Question Id : 1143 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $a:b=2:3$  and  $a+b = 45$ , then  $a$  is equal to

Options :

1.  27

2.  25

3.  18

4.  9

Question Number : 94 Question Id : 1144 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $2, x, x^2, 4$  are in proportion, then  $x$  is equal to

Options :

1.  2

2.  4

3.  8

4.  16

Question Number : 95 Question Id : 1145 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If 20% of a number is 250, then number is

Options :

1.  25

2.  1250

3.  2500

4.  5000

Question Number : 96 Question Id : 1146 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In how many years ₹ 500 will amount to ₹ 700 at simple interest of 5% per annum?

Options :

1.  4

2.  5

3.  6

4.  8

Question Number : 97 Question Id : 1147 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In how many years ₹ 2000 will amount to ₹ 2100 at 10% per annum compounded half yearly?

Options :

1.  2

2.  1.5

3.  1

4.  0.5

Question Number : 98 Question Id : 1148 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The cost price of an article is ₹ 220. If profit is 10%, then selling price of article is

Options :

1.  ₹ 242

2.  ₹ 252

3.  ₹ 200

4.  ₹ 363

Question Number : 99 Question Id : 1149 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

. If selling price of an article is ₹ 330 and profit is 10% , then cost price of article is

Options :

1.  ₹ 290
2.  ₹ 297
3.  ₹ 300
4.  ₹ 363

Question Number : 100 Question Id : 1150 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A shopkeeper mixes 10 kg of wheat which cost him ₹ 20/kg with 5 kg of wheat which cost him ₹15/kg. He sells the mixture at ₹21/kg. His profit is

Options :

1.  ₹ 40
2.  ₹ 45
3.  ₹ 50
4.  ₹ 55

Question Number : 101 Question Id : 1151 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

In two vessels A and B, spirit and water are in the ratio 2:1 and 2:3 respectively. The ratio in which these are mixed which contains half water is

Options :

1.  5:3
2.  3:5
3.  2:3
4.  3:2

Question Number : 102 Question Id : 1152 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The speed of a car is 72km/h. The time taken by it to cover a distance of 500 m in seconds is

Options :

1.  20

2.  25

3.  30

4.  40

Question Number : 103 Question Id : 1153 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A train 80m long is moving with the speed of 45km/h. The time taken by it in seconds to pass a bridge 120m long is

Options :

1.  8

2.  10

3.  16

4.  20

Question Number : 104 Question Id : 1154 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

A and B can do a piece of work in 6 days. A alone can do the same work in 10 days. In how many days B alone, can do the same work?

Options :

1.  15

2.  8

3.  7

4.  8.5

Question Number : 105 Question Id : 1155 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

P and Q can do a piece of work in 15 days, Q and R in 12 days, and R and P in 20 days. The number of days required for Q to do the same work alone is

Options :

1.  60

2.  40

3.  30

4.  20

Question Number : 106 Question Id : 1156 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of 4,6,0,3,6, is

Options :

1.  4.75

2.  4.5

3.  3.8

4.  3.5

Question Number : 107 Question Id : 1157 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The average of 20 observations is 18 and average of 30 observations is 25.

The average of all 50 observations is

Options :

1.  21.5

2.  21.8

3.  22.2

4.  22.5

Question Number : 108 Question Id : 1158 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Sum of first 20 terms of the AP

-4, -2,0,2,..... is

Options :

1.  600

2.  340

3.  300

4.  460

Question Number : 109 Question Id : 1159 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The sum of infinite GP  $1, \frac{1}{3}, \frac{1}{9}, \frac{1}{27}, \dots$  is

Options :

1.   $\frac{5}{3}$
2.   $\frac{3}{2}$
3.   $\frac{4}{3}$
4.   $\frac{3}{5}$

Question Number : 110 Question Id : 1160 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angle of elevation of top of a tower from a point on the ground 20 m away from the foot of the tower is  $60^\circ$ . The height of tower is

Options :

1.   $\frac{20\sqrt{3}}{3}$  m
2.   $\frac{40\sqrt{3}}{3}$  m
3.  20m
4.   $20\sqrt{3}$  m

Question Number : 111 Question Id : 1161 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The angles of elevation of top of a tower, 30m high, from two points on opposite side of the tower are  $30^\circ$  and  $60^\circ$  respectively. If the points and tower are in same line, the distance between two points is

Options :

1.   $20\sqrt{3}$  m
2.   $40\sqrt{3}$  m
3.   $20(\sqrt{3} + 1)$  m
4.   $20(\sqrt{3} - 1)$  m

Question Number : 112 Question Id : 1162 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

If  $(x-2)$  is a factor of  $x^3+2x^2-ax+4$ , then a is equal to

Options :

1.  8

2.  -8

3.  -10

4.  10

Question Number : 113 Question Id : 1163 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

One of the factor of  $(2x+3y)^3 - (5x-2y)^3$  is

Options :

1.   $(7x+y)$

2.   $(7x-y)$

3.   $(3x+5y)$

4.   $(5y-3x)$

Question Number : 114 Question Id : 1164 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The value of k for which  $x^2+5x-2k=0$  has equal roots is

Options :

1.   $\frac{25}{8}$

2.   $-\frac{25}{8}$

3.   $\frac{5}{2}$

4.   $-\frac{5}{2}$

Question Number : 115 Question Id : 1165 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The sum of squares of the roots of the equation  $x^2+x-2=0$  is

Options :

1.  1

2.  2

3.  5



4.  3

Question Number : 116 Question Id : 1166 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

In a game of cricket, when the ball bounces more than once before reaching batsman's side, it is called

Options :

1.  Bouncer

2.  Yorker

3.  Short ball

4.  Dead ball

Question Number : 117 Question Id : 1167 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

How many points are awarded for one normal basket in a game of basketball?

Options :

1.  1

2.  2


3.  3


4.  2 or 3


Question Number : 118 Question Id : 1168 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


Wires in our homes are made of metal because metals are

Options :

1.  good conductors of electricity

2.  cheap and wires are long

3.  easily available


4.  conveniently covered by insulators


Question Number : 119 Question Id : 1169 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Who wrote our national song, 'Vande Mataram'?

Options :

1.  Bankim Chandra Chatterjee

2.  Rabindra Nath Tagore


3.  Sumitra Nandan Paut


4.  Mohan Das Karam Chand Gandhi


Question Number : 120 Question Id : 1170 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


What is not true about, “what forces can do”?

Options :

1.  Speed up and slow down

2.  Turn and change shape


3.  Push and pull


4.  Turn but not change direction


Question Number : 121 Question Id : 1171 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


How can you know that vinegar is an acid?

Options :

1.  It will turn blue litmus red

2.  It will turn red litmus blue


3.  Phenolphthalein turns pink when added to vinegar


4.  Its pH will be more than 7

Question Number : 122 Question Id : 1172 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33


The majority of Members of Parliament of the present Lok Sabha are from

Options :

1.  Bharatiya Janta party

2.  Aam Aadmi party





3.  Congress

4.  Bajaj Samaj party

Question Number : 123 Question Id : 1173 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Alcohols are studied in Organic Chemistry because there are





Options :

1.  Hydrocarbons
2.  Silicon compounds
3.  Ring compounds
4.  Made C, O, N

Question Number : 124 Question Id : 1174 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When new plants are grown from plant parts other than the flower, it is termed

Options :





1.  Multiple Fission
2.  Sexual reproduction
3.  Vegetative propagation
4.  Binary fission

For the above question, User had specified 'ignore' during keys upload.

Question Number : 125 Question Id : 1175 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

When cell division in the body is out of control, it causes

Options :

1.  Fever
2.  Cancer
3.  Inflammation
4.  a and c

Question Number : 126 Question Id : 1176 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Mules which humans use to carry load are unable to breed because

Options :

- their parents belong to the same species
- their parents belong to different species
- reproductive organs are absent in mules
- mules are neither female nor male

Question Number : 127 Question Id : 1177 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What is **not** true regarding your image, when you see yourself in the plane mirror?

Options :

- Image is of the same size as you
- It is at the same distance behind the mirror as you are in front of it
- The face, hands and legs are in the same direction in the mirror as yours
- Your image is laterally inverted in the mirror

Question Number : 128 Question Id : 1178 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

One of the India's past presidents was active as a scientist of repute till his death recently. Select his name.

Options :

- Rajendra Prasad
- Sarvapalli Radhakrishnan
- A P J Abdul Kalam
- Pranab Mukherji

For the above question, User had specified 'ignore' during keys upload.

Question Number : 129 Question Id : 1179 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33

The state capital of Haryana and Punjab is

Options :

- Ambala
- Chandigarh

3.  Chandigarh and Ludhiana respectively


4.  Rohtak and Amritsar respectively


Question Number : 130 Question Id : 1180 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33


How does deforestation cause an increase in greenhouse gases in the atmosphere?

Options :

1.  Trees form a Carbon Sink in the forest when they are cut down

2.  All trees cut from forest are burnt down which releases lots of Carbon dioxide

3.  Canopy layer of forest prevents leaching and that causes air to have lot of greenhouse gases


4.  Deforestation reduces cloud formation and rain which increases collection of greenhouse gases


Question Number : 131 Question Id : 1181 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33


Summer solstice falls on 20<sup>th</sup> or 21<sup>st</sup> on this day

Options :

1.  Day and night are equal

2.  Day is the longest of all days in the year

3.  Night is longest of all nights in the year


4.  The temperature is usually the highest in the year


Question Number : 132 Question Id : 1182 Question Type : MCQ Option Shuffling : No


Correct : 1.0 Wrong : 0.33


Which out of the following is not correct?

Options :

1.  The Dutch invaded Indonesia

2.  The Japanese occupied Singapore during World War II

3.  India was colonized by the British for almost two centuries

4.  Palestinian territory was never part of Israel

Question Number : 133 Question Id : 1183 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

What was the name of the founder of Buddhism, before he renounced the world?

Options :

1.  Gautama
2.  Siddhartha
3.  Partha
4.  Mahaveera

Question Number : 134 Question Id : 1184 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which of the following became the greatest landmark in history of mankind as it ushered in an era of liberty, equality and fraternity?

Options :

1.  Spanish Revolution in 1936
2.  Russian Revolution in 1971
3.  Serbian Revolution in 1804
4.  French Revolution in 1789

Question Number : 135 Question Id : 1185 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Which salt of Calcium is Plaster of Paris?

Options :

1.  Calcium Sulphate
2.  Calcium Oxide
3.  Calcium Carbonate
4.  Calcium Hydroxide

Question Number : 136 Question Id : 1186 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

Dr. Baba Saheb Bhimrao Ambedkar, is regarded as the architect of Indian constitution because, he

Options :

1.  Designed the cover page of the document
2.  Was elected the president of Constituent Assembly
3.  Was the chairman of the Drafting committee
4.  a and b

Question Number : 137 Question Id : 1187 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The economic group called “group of seven” (G7) does not include

Options :

1.  Canada
2.  Germany
3.  Japan
4.  Netherlands

Question Number : 138 Question Id : 1188 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Comparative advantage and absolute advantage are terms related to

Options :


1.  International trade
2.  E-commerce
3.  Commercial vehicular exchange
4.  Movement of commodities within a country

Question Number : 139 Question Id : 1189 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The terms of trade measures

Options :





1.  the ratio of export prices to import prices
2.  extent of international competitiveness
3.  effective exchange rates

4.  Nominal exchange rates

Question Number : 140 Question Id : 1190 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The President of India can declare Emergency under Article 352 on the advice of :





Options :

1.  Prime Minister
2.  Council of Ministers
3.  Governor
4.  Cabinet

Question Number : 141 Question Id : 1191 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

A boy pointing to a photograph said, "His father is my father's brother." How is the person in the photograph related to the boy?

Options :




1.  Cousin
2.  Brother
3.  Nephew
4.  Sister

Question Number : 142 Question Id : 1192 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

The first two numbers on the left of the sign '::' are related in a certain way. The same relationship holds for the second pair of numbers on the right side of the sign '::' of which one is missing. Find the missing one from the alternatives.

$$35 : 16 :: 53 : ?$$

Options :

1.  61
2.  29
3.  27



Question Number : 143 Question Id : 1193 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

'Botany' is related to 'Plants' in the same way as 'Anthropology' is related to:

Options :

1.  Archives
2.  Culture
3.  Rural
4.  Events

Question Number : 144 Question Id : 1194 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

C is taller than B, who is shorter than D. D is taller than C, who is shorter than E.

D is shorter than E, who is taller than A.

Who is the tallest of all?

Options :

1.  A
2.  C
3.  D
4.  E

Question Number : 145 Question Id : 1195 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Arrange the following words in a meaningful logical sequence and choose the appropriate number sequence from the alternatives.

1. Locality    2. State    3. Member    4. Village    5. Nation    6 Family

Options :

1.  3, 6, 1, 4, 2, 5
2.  5, 2, 4, 1, 6, 3
3.  3, 6, 4, 1, 2, 5
4.  3, 6, 4, 2, 1, 5

Question Number : 146 Question Id : 1196 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

One term in the following number series is wrong. Find out the wrong term.

1097, 368, 125, 44, 16, 8, 5

Options :

1.  8
2.  16
3.  44
4.  125

Question Number : 147 Question Id : 1197 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If SIT = 66 and ROW = 50, then HOPE will be equal to:

Options :

1.  128
2.  88
3.  64
4.  28

Question Number : 148 Question Id : 1198 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

If 'HOSTILE' is coded as 'JMURKJG', then 'REQUEST' would be coded as:

Options :

1.  TCSSGSV
2.  PGPWCUR
3.  TCSSGQV
4.  TCSWCSV

Question Number : 149 Question Id : 1199 Question Type : MCQ Option Shuffling : No  
Correct : 1.0 Wrong : 0.33

Shovan walked 5 km towards South-West, took a right turn and walked 3 km. Then he turned right again and walked 9 km. How far and in which direction is Shovan now with respect to his starting point?

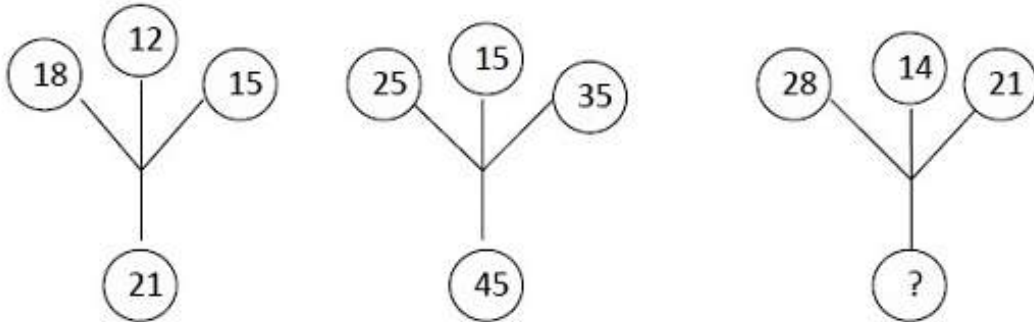
Options :

1.  4 km North
2.  5 km North
3.  4 km North-East
4.  5 km North-East

Question Number : 150 Question Id : 1200 Question Type : MCQ Option Shuffling : No

Correct : 1.0 Wrong : 0.33

The numbers in the following figures follow a pattern. Which number would replace the question mark?



Options :

1.  25
2.  42
3.  35
4.  49