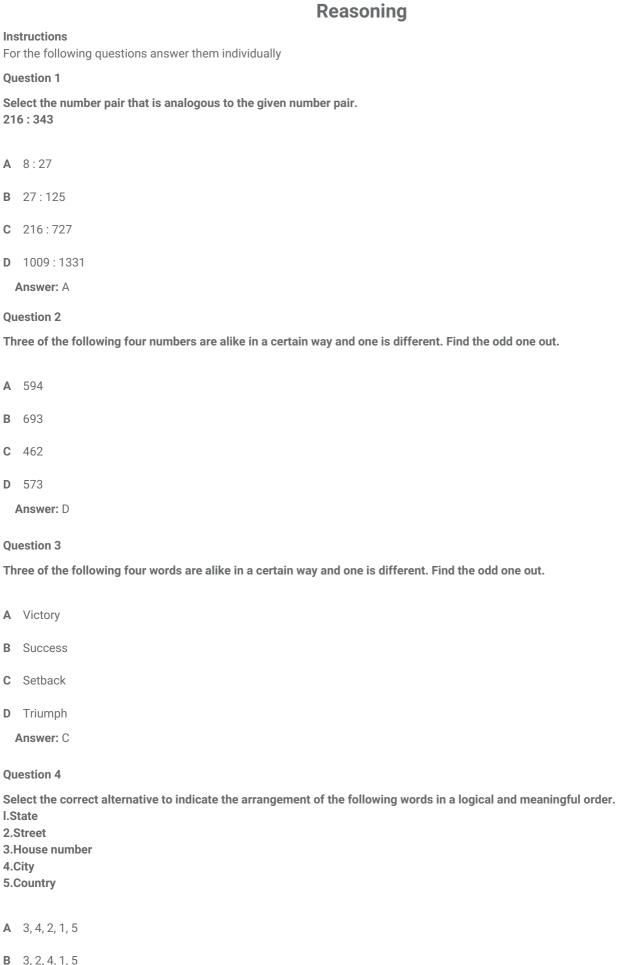
SSC CPO 14th-March-2019-Shift-2



c 2, 3, 4, 5, I 1, 5, 4, 3, 2 Answer: B **Question 5** Which number will come next in the following series? 136, 137, 135, 138, 134, 139, **A** 133 136 **C** 139 138 Answer: A Question 6 Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair: Army: General College: Student Hospital: Patient Worker: Factory Company: Director Answer: D **Question 7** Choose the mirror image of the given word if the mirror is placed to the right of the word. E8t4g9C E8t4p9C C994t8E E8 1 4 P P C

E8t499C

Answer: D

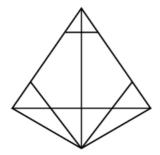
Question 8 Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair. Smile: Laugh Run: Stand Sad: Happy Blend: Mixture Speak: Shout Answer: D **Explanation:** As smiling is gentler version of laughing, speaking is gentler version of shouting. **Question 9** Select the option that is related to the third term in the same way as the second term is related to the first term. 24:102::16:..... 346 68 60 64 Answer: B **Explanation:** $\begin{array}{ccc} 24 & 16 \\ 102 & = & x \end{array}$ x= 68 **Question 10** Three of the following four letter-clusters are alike in a certain way and one is different. Find the odd one out. **GHTR** CKXP AEZV **D** FJUQ Answer: A

Explanation:

All options except A are in such a way that the difference between 1st and the 2nd term in the alphabetic order is same as the difference between 3rd and 4th term (Please elaborate taking their positions w.r.t the english alphabetical series, but in option A there is no such pattern.

Therefore, option A is the odd one out of the 4 options.

How many triangles are there in the following figure?



B 24

C 28

D 26

Answer: B

Explanation:

In this type of questions, only way is to calculate manually the number of triangles.

Tips:-

First count single triangles, then count the big triangles which have two triangles in it, the big triangles with three triangles in it and so on.

Represent it with a,b,c vertices for each triangle and then count. Otherwise there are formulae to calculate the no of triangles.

Question 12

Select the option that is most like the given set.

(3, 15, 123)

A (8, 63, 998)

B (5, 36, 341)

C (2, 26, 125)

D (4, 24, 214)

Answer: D

Question 13

Abhijeet leaves his house and moves 30 m in the North-West direction. Then, he goes 30 m in the South-West direction. Next, he moves 30 m in the South-East direction. Then, he moves 30 m in the North-East direction. How far away is he from his house?

A 10 m

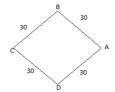
B 20 m

C 30 m

D 0 m

Answer: D

Explanation:



Point A is the home of abhijeet, he moves 30 m in north west direction from point A and reaches point B, from point B he again moves 30 m in south west direction to reach point D, and finally he moves 30 m in north-east direction to return back to point A.

therefore the distance between abhijeet's home to the end point is 0.

This is a direct explanation. Take step by step. Like he moved 30m north west. So represent it in the figure 1.

Then 30m south west. Represent it in figure 2 combining figure 1 and likewise.

Question 14

Three of the following four pairs of numbers are alike in a certain way and one is different. Find the odd one out.

A 136 - 153

B 152 - 171

C 63-72

D 104 - 117

Answer: C

Explanation:

Let us examine the pattern in difference between the stated numbers.

153-136 = 17 -> Prime number

171-152 = 19 -> Prime number

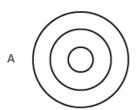
72-63 = 9 -> Non-prime number

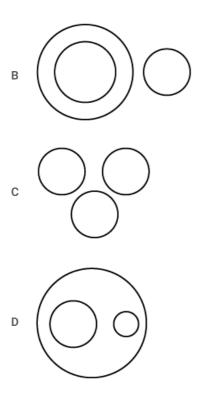
117-104 = 13. -> Prime number

Hence, the pair 72-63 is the odd pair among the given 4 pair of numbers.

Question 15

Choose the Venn diagram from the given options that best represents the relationship amongst the following classes: Indonesia, Asia, Bangladesh





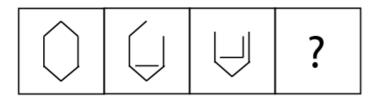
Answer: D

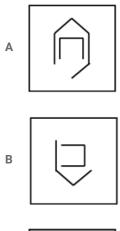
Explanation:

As Indonesia and Bangladesh both belongs to Asia and these two countries don't have any intersection, option D has picturised the mentioned information in the most logical way.

Question 16

Select the figure that will come next in the following series.









Answer: B

Explanation:

The pattern followed in this question is as follows

there are two figure, outer one that is initially a hexagon, and an inner one which is growing it's edges with each step.

with each step, one edge of the hexagon is getting removed and one edge is getting added to the inner figure summing up the total number of edges in the complete diagram to be same.

step 1

Outer figure - 6 edges, Inner figure - 0 edges

step 2

Outer figure - 5 edges, Inner figure- 1

step 3

outer figure- 4, inner - 2

therefore in step 4, the outer figure should be having 3 edges and inner figure 3 edges.

the only option with the required conditions is option B.

hence, the correct answer is option B.

Question 17

Select the option that is related to the third term in the same way as the second term is related to the first term.

MUSCLE: SUMLEC:: OUTPUT:

- A TUOUTP
- **B** UTOPUT
- **C** TOUTUP
- **D** PUTOUT
- **E** PTOUUT

Answer: A

Explanation:

The pattern being followed here is-

The sequence of first three words is getting reversed, and the latter 3 words are following a cyclic pattern starting from 2nd out of 3 words. i.e. 123 is getting 231.

Following this pattern the 4th word would be TUOUTP.

Hence option A is the right answer.

Two positions of a dice are shown below. When there are five dots at the top, how many dots will be at the bottom?





- **A** 2
- **B** 6
- C 1
- **D** 3

Answer: A

Explanation:

2 is common in both the arrangements given to us,

every face of a dice is surrounded by 4 other sides, the only side that does not surround a face is the one opposite to it.

the faces surrounding 2 are - 1,6,4,3

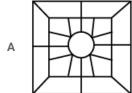
so clearly 5 is opposite to 2 and hence when 5 dots are at the top, 2 will be in the bottom.

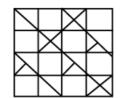
therefore answer is option A-2

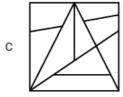
Question 19

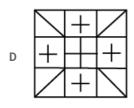
Select the option in which the given figure is embedded.











Answer: B

Explanation:

On closely examining all 4 options we can observe that the only option in which the given shape is embedded is option B.

Please show the figure of the embedded one in the main figure here.

Question 20

'Mass' is related to 'Kilogram' in the same way as 'Force' is related to:

- A Newton
- **B** Pascal
- C Joule
- **D** Second

Answer: A

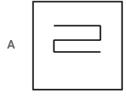
Explanation:

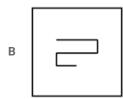
Newton is the unit of Force and Kilograms is the unit of Mass

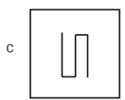
Question 21

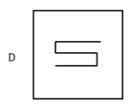
Select the figure that will come next in the following series.











Answer: A

Explanation:



if we closely examine the pattern being followed in the question, we can see that first figure is having zigzag pattern initiating from upwards, in second it's starting from rightwards direction, in third figure it's initiating from downwards in 4th figure it should be starting leftwards

Question 22

Select the option that is most like the given set. (23, 136, 45)

- **A** (29, 78, 11)
- **B** (17, 50, 33)
- **C** (31, 126, 37)
- **D** (19, 96, 29)

Answer: D

Explanation:

Comparing the corresponding numbers of each option with the given set we can see that the difference between them is uniformly following a pattern in option D where the difference is 4,40 and 16, all three being a multiple of 4 are forming a pattern while any such pattern can not be observed in the other options.

Hence, option D is the correct answer.

Logic is wrong

Question 23

If A= 4 and C=6, then how will you code POWER?

- A 191825821
- **B** 191826821
- C 181726821
- **D** 181725720

Answer: B

Explanation:

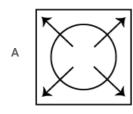
Given - A= 4, C=6.

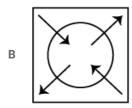
We can observe the pattern that it is coded in alphabetical order +3 . i.e the first alphabet of English language is coded as 4, then 5, 6 and so on.

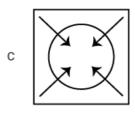
going by this way we can clearly see that POWER will be coded as -
P-19
0-18
W -26
E-8
R-21
After combining these codes we get the required coded word.
191826821
Question 24
Which two signs should be interchanged to make the given equation correct? $20+5\times 3 \div 3-1=14$
A \div and $+$
$f B$ \div and $ imes$
${f C} imes {f and} -$
D $ imes$ and $+$
Answer: A
Explanation: Going by the options,
D) interchanging $ imes \ and \ +$
20 imes 5 + 3
c) $ imes$ and $-$
$20 \ + \ 5 \ - \ 3 \ \div \ 3 \times \ 1 \not= \ 14$
B) \div and $ imes$
$20 + 5 \div 3 \times 3 - 1 \neq 14$
A) \div and $+$
$20 \div 5 \times 3 + 3 - 1 = 14$
(Explanation is required)
Hence option A is the correct answer
Question 25
Which number will come next in the following series? 1, 2, 5,, 677
A 26
B 25
C 95
D 11
Answer: A
Explanation:

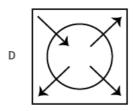
Lik	xe \$\$1, 1^2 + 1, 2^2 + 1, 5^2 + 1
Не	ence 1, 2, 5, 26
(S	ame explanation more detailed required)
Oı	nestion 26
	ethargy' is related to 'Alertness' in the same way as 'Hostility' is related to:
	analy is related to Aleraness in the same way as risotility is related to:
Α	Violence
В	Pride
С	Cordiality
D	Antagonism
	Answer: C
	planation: lationship between lethargy and alertness -> Antonyms
i.e	the relationship required here is antonyms.
So	clearly, the only option satisfying this relationship with hostility is option C cordiality.
Qι	sestion 27
Sta	Insider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the inclusions logically follows from the statements. I leaders are statesmen. I statesmen are orators. I statesmen are orators. All leaders are orators. All statesmen are leaders.
A	Both conclusions I and II follow
В	Neither conclusion I nor II follows
С	Only conclusion I follows
D	Only conclusion II follows
	Answer: C
Qι	estion 28
Se	lect the figure that will come next in the following figure series.
	<u> </u>

Pattern being followed here is $\ n^2+1$









Answer: B

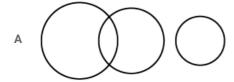
Which letter will replace the question mark (?) in the following series? C, E, I, O, ?

- A W
- **B** A
- C X
- D Z

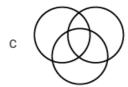
Answer: A

Question 30

Choose the Venn diagram from the given options that best represents the relationship amongst the following classes: Clerk, Male, Permanent Employee









Answer: C

Question 31

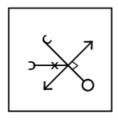
If in a certain language, EXAMPLE is coded as DWZLOKD, how will ELECTION be coded in that language?

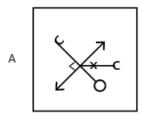
- A DKEBSHNM
- **B** EKDBSHNM
- C DKDBSHNM
- D DKDBSJHM

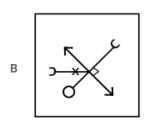
Answer: C

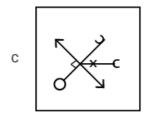
Question 32

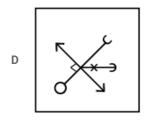
Select the mirror image of the given figure when the mirror is placed vertically to the right of the figure.











Answer: C

Question 33

Select the option that is related to the fourth term in the same way as the first term is related to the second term. EGJ: JLO ::: TVY

A ORT

B NPS

C OQT

D NPR

Answer: C

Question 34

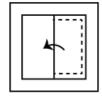
Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

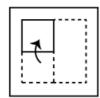
- 1. Karnataka
- 2. Bengaluru
- 3. Asia
- 4. India
- 5. World
- **A** 1, 5, 4, 3, 2
- **B** 3, 4, 2, 1, 5
- **C** 2, 3, 4, 1, 5
- **D** 2, 1, 4, 3, 5

Answer: D

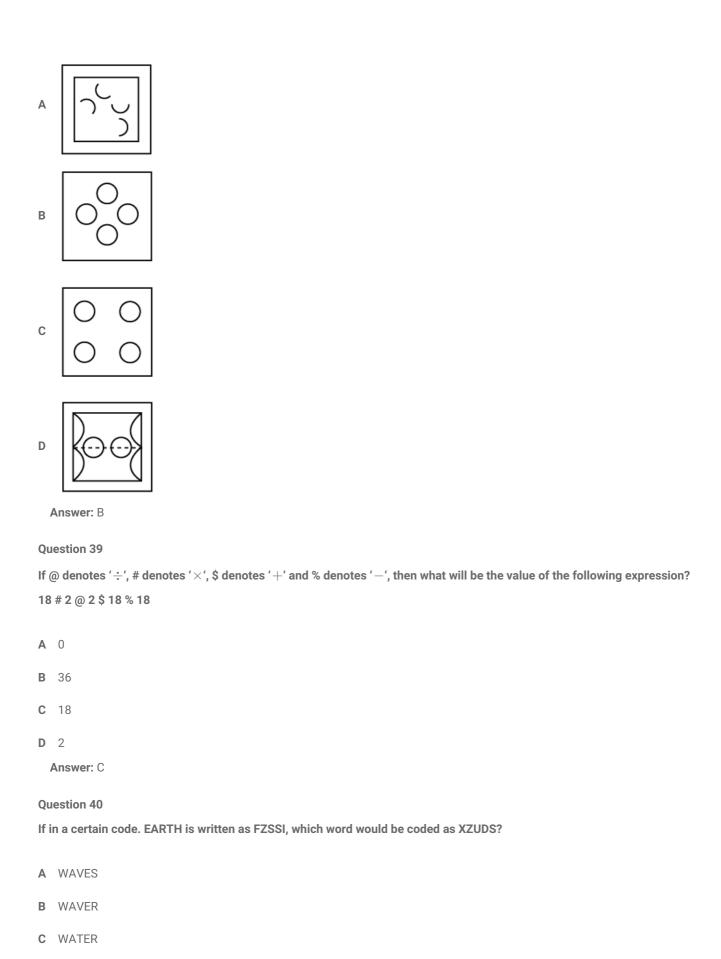
Question 35
Tina is 75 m South-East of Veena. Reena is 75 m South-West of Veena. Tina is to the of Reena.
A North
B West
C South
D East
Answer: D
Question 36
Select the number pair that is analogous to the given number pair. 13 : 338
A 15:225
B 9:729
C 8:128
D 5:52
Answer: C
Question 37
In a certain code language 'DEAR' is written as '7465' and 'LIFE' is written as '8394'. How will 'IDEAL' be written in the same cod language?
A 37684
B 37468
C 73648
D 84673
Answer: B
Question 38

A piece of paper is folded and cut as shown below. How will it appear when unfolded?









D YXVET

Answer: C

Question 41		
Th	ree of the following four pairs of words are alike in a certain way and one is different. Find the odd one out.	
Α	Snake - Lizard	
В	Frog - Crocodile	
С	Parrot - Eagle	
D	Bear - Deer	
4	Answer: B	
Qu	estion 42	
Th	ree of the following four numbers are alike in a certain way and one is different. Find the odd one out.	
Α	104	
В	28	
С	32	
D	48	
4	Answer: B	
Qu	estion 43	
Th	ree of the following four letter-clusters are alike in a certain way and one is different. Find the odd one out.	
Α	HKNQT	
В	QTWZC	
С	BEHKN	
D	TWYBC	
4	Answer: D	
Qu	estion 44	
	nich number in the given series is incorrect? 7, 7, 11, 9, 13, 13, 17, 15, 23	
Α	23	
В	9	
С	13	
D	17	
	Answer: A	

Which letter—cluster will replace the question mark (?) in the following series? DEY, FFW, IGT, KHR, NIO, ?

- A QJN
- **B** PJM
- C QJM
- **D** PJN

Answer: B

Explanation:

$$DEY = 4 + 5 + 25 = 34$$

$$FFW = 6 + 6 + 23 = 35$$

$$IGT = 9 + 7 + 20 = 36$$

$$KHR = 11 + 8 + 18 = 37$$

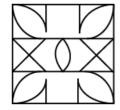
$$NIO = 14 + 9 + 15 = 38$$

According to sequence, next term will be

$$PJM = 16 + 10 + 13 = 39$$

Question 46

Select the figure which is embedded in the given figure.















Answer: B

Question 47

Three of the following four pairs of numbers are alike in a certain way and one is different. Find the odd one out.

- **A** 7, 12
- **B** 44, 2
- **C** 11, 8
- **D** 22, 4

Answer: A

Question 48

Choose the Venn diagram from the given options that best represents the relationship amongst the following classes: Graduate, Painter, Teacher

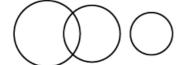




В



С



D



Answer: A

Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide which of the conclusions logically follows from the statements.

Statements:

- A. Some clocks are Instruments.
- B. Some Instruments are hands.

Conclusions:

- I. Some hands are clocks.
- II. No hand is a clock.
- A Only conclusion II follows
- B Neither conclusion I nor II follows
- C Only conclusion I follows
- D Either conclusion I or II follows

Answer: D

Question 50

If \div means '+', \times means ' \div ', + means '-' and - means ' \times ', then what is the value of the following expression?

$$16 - 4 + 12 \times 3 \div 5 = ?$$

- **A** 67
- **B** 53
- **C** 59
- **D** 65

Answer: D

Explanation:

$$16 - 4 + 12 \times 3 \div 5$$

According to question,

$$16 \times 4 - 12 \div 3 + 5$$

 $By u \sin g BODMAS$, we get,

$$16 \times 4 - 4 + 5$$

64 + 1

65

General knowledge

Instructions

For the following questions answer them individually

Answer: B

The Union g administrati			Project o	f the In	come Tax	Departme	ent to enha	nce the ef	iiciency o	of income	tax
	1 = 60	 1.0									

ad	ministration system in the country.
Α	Enhanced E-filing and Centralised Processing Center 2.0
В	Innovative E-filing and Centralised Processing Center 2.0
С	Interdisciplinary E-filing and Centralised Processing Center 2.0
D	Integrated E-filing and Centralised Processing Center 2.0
1	Answer: D
	estion 52
wr	nat is Vedic name of River Ravi?
Α	Askini
В	Kalindi
С	Parushini
D	Shutudri
1	Answer: C
Qu	estion 53
	nar Haat exhibitions, aimed at plays an important role in national and international branding of the heritage of master artisans India.
Α	"Preserve Heritage"
В	"Development with Dignity"
С	"Grow with art"
D	"Work with mission"
1	Answer: B
Qu	estion 54
Wŀ	no discovered electromagnetism?
Α	James Clerk
В	Hans Christian Oersted
С	Michael Faraday
D	Andre Amphere

Qι	sestion 55
Ох	alic acid is found in which of the following?
	Amla
	Amla
В	Lemon
С	Tamarind
D	Spinach
	Answer: D
Qu	estion 56
WI	no has written the book "Capital and Growth"
Α	Kenneth Arrow
В	Adam Smith
С	John Hicks
D	A. R. Rodon
	Answer: C
Qu	nestion 57
	January 2019, researchers from revealed that they had recreated space fuel by simulating interstellar conditions in the poratory.
Α	Indian Institute of Technology-Kanpur (IIT-K)
В	Indian Institute of Technology-Madras (IIT-M)
С	Indian Institute of Technology-Bombay (IIT-B)
D	Indian Institute of Technology-Delhi (IIT-D)
	Answer: B
Qu	nestion 58
WI	no among the following was NOT a recipient of the Arjuna Award 2018?
Α	Nelakurthi Sikki Reddy (Badminton)
В	Satish Kumar (Boxing)
С	Neeraj Chopra (Athletics)
D	Gulpreet Kumari (Hockey)

Answer: D

Question 59 The Pravasi Teerth Darshan Yojana accords first preference to people of Indian origin and fi'om Girmitiya countries. Which of the following is NOT one of them? A Mauritius

Fiji Guyana Austria Answer: A **Question 60** University won the Maulana Abul Kalarn Azad (MAKA) Trophy 2017-18. Guru Nanak Dev University, Amritsar Tamil Nadu Dr. M.G.R. Medical University Ramachandra Deemed Medical University. Chennai University of Hyderabad Answer: A **Question 61** After his release from jail in 1909, Aurobindo Ghose started two weeklies namely and Karmayogin in English and Dharma in Bengali Anandabazar Patrika in Hindi and Manorama in Malayali Dainik Jagran in Hindi and Manorama in Malayali Dainik Jagran in Hindi and Anandabazar Patrika in also Hindi Answer: A **Question 62** is an epic poem by Asvaghosa. which narrates the life of Buddha fiom his birth till the time he attained Nirvana. Shishupala Vadha Buddhacharita Kiratarjuniya Arthashastra Answer: B

Question 63

The Kama Sutra was originally compiled in the 3rd century by the Indian sage who lived in northern India.

Α	Valmiki
В	Vatsyayana
С	Kautilya
D	Veda Vyasa
4	Answer: B
Ou	estion 64
	Mirabai Charm and Vn'at Kohli were the recipients of the for spectacular and outstanding performance in the field of sports
Α	Dhyan Chand Award 2018
В	Rajiv Gandhi Khel Ratna Award 2018
С	Maulana Abul Kalam Azad (MAKA) Trophy 2017-18
D	Dronacharya Award 2018
4	Answer: B
Qu	estion 65
Ku	mbh Mela takes place every third year at one of four places by rotation. Which of the following is NOT one of these places?
Α	Allahabad (Prayag)
В	Haridwar
С	Ujjain
D	Pune
1	Answer: D
Qu	estion 66
	cording to an SBI report named, the government should opt for unconditional cash transfer to farmers to alleviate agrarian stress rather than the Universal Basic Income (UBI) scheme.
Α	Ecowrap
В	Ecoloss
С	EcoTransfer
D	Ecocash
1	Answer: A

What was the theme of National Girl Child Day in 2019?

Α	Save Girl Child
В	Creating a Healthy and Safe Environment for the Girl Child
С	Sanitation for Girl Child
	Empowering Girls for a Brighter Tomorrow Answer: D
Mc	estion 68 handas Gandhi was awarded the Kaisar-i-Hind award in 1915 by of Penshurst for his contribution to ambulance services in uth Afiica.
A	Lord Curzon
В	Lord Hardinge
С	Lord Dalhousie
	Lord Ripon Answer: B
	estion 69 ich of the following states/union territories does NOT have more than 75% forest cover as of forest report 2017?
Α	Mizoram
В	Assam
С	Lakshadweep
	Andaman and Nicobar Islands Answer: B
Qu	estion 70
••••	is the non-enzymatic reaction between reducing sugars such as glucose and proteins, lipids or nucleic acids.
A	Pyruvate oxidation
В	Glycation
С	Phosphorylation
	Cellular respiration Answer: B
lt i	estion 71 s not feasible to implement at the national level because the land data is yet to be digitized in several states including arkhand, Bihar, Gujarat, and Tamil Nadu.

Antyodaya Anna Yojana

В	Sukanya Samriddhi Account
С	Jago Grahak Jago
D	Rythu Bandhu Scheme
	Answer: D
Qu	restion 72
То	oth enamel is made up of:
Α	Calcium Phosphate
В	Calcium Silicate
С	Calcium Carbonate
D	Calcium Sulphate
	Answer: A
Qu	estion 73
Ol	factory indicators show change in:
Α	Smell
В	Physical state
С	Color
D	Chemical state
,	Answer: A
Qu	estion 74
Th	e International Day of the Girl Child is observed every year across the world on
Α	15 March
В	19 December
С	25 January
D	11 October
	Answer: D
Qu	estion 75
Pr	ime Minister Narendra Modi launched the Pravasi Teerth Darshan Yojana. Which of the following is NOT one of its features?
Α	People of Indian-origin aged 40 to 70 can avail of the benefits under this scheme.
В	The government will bear all the expenses of the trip including the airfare from the group's country of residence.
С	Those selected would be taken to religious places of all major religions in India.

_	Under the scheme, a group of Indian diaspora will be taken on a government-sponsored tour of religious places in India twice a year. Answer: A
	estion 76
Na	tional Girl Child Day is celebrated in India on
Α	24^{th} January
В	$23^{rd}\mathrm{March}$
С	21^{st} September
D	9^{th} February
	Answer: A
Qu	estion 77
Ac	cording to Container Ports Report, is India's only port to be ranked among world's top 30 ports.
Α	Jawaharlal Nehru Port Trust
В	Panambur Port
С	Port Blair
D	Tuticorin Port
,	Answer: A
Qu	estion 78
As	per 'India State of Forest Report (ISFR) 2017', the state of has the largest area covered under permanent forest.
Α	Punjab
В	Mizoram
С	Arunachal Pradesh
D	Madhya Pradesh
,	Answer: D
0	estion 79
	of January 2019, who is the Minister of Electronics and Information Technology (MeitY)?
	Suresh Prabhu
В	Ravi Shankar Prasad
С	Raj Nath Singh

D	DV Sadananda Gowda		
	Answer: B		
Qι	estion 80		
Th	The total forest and tree cover is of geographical area of the country, according to the findings of ISFR 2017.		
Α	30.2%		
В	21.67%		
С	24.39%		
	26.4%		
	Answer: C		
Qι	estion 81		
Me	etamorphosis in fiogs is controlled by:		
Α	Melatonin		
В	Adrenalin		
С	Thyroxine		
D	Insulin		
	Answer: C		
Qu	estion 82		
	art from a medal and a citation, in 2018, the Rajiv Gandhi Khel Ratna awardee received a cash prize of ₹ while Arjuna, onacharya and Dhyan Chand awardees received statuettes, certificates and a cash prize of ₹ each.		
Α	7.5 lakh, 5 lakh		
В	6 lakh, 2.5 lakh		
С	10 lakh, 5 lakh		
	5 lakh, 2.5 lakh		
,	Answer: A		
Qι	estion 83		
Ilb	ert Bill, which was introduced by, is a controversial measure proposed in 1883.		
Α	Lord Dalhousie		
В	Lord Hastings		
С	Lord Curzon		
D	Lord Ripon		
	Answer: D		

Question 84		
Th	e Battle of Plassey was fought on between Siraj ud-Daulah and the British East India Company.	
Α	15 September 1765	
В	21 June 1780	
С	25 May 1745	
D	23 June 1757	
4	Answer: D	
	estion 85	
••••	is the most abundant molecule in cells, accounting for 70% or more of total cell mass.	
Α	Water	
В	Lipids	
С	Nucleic acid	
D	Proteins	
4	Answer: A	
Qu	estion 86	
Th	e Indian junior men's skeet team clinched a silver at the IS SF World Championships in in 2018	
Α	Argentina	
В	Hungary	
С	South Korea	
D	North Korea	
4	Answer: C	
Qu	nestion 87	
••••	wrote the epic Ramcharitmanas.	
Α	Vishnu Sharma	
В	Valmiki	
С	Veda Vyasa	
D	Tulsidas	

Answer: D

Question 88		
Marginal cost is directly equal to its		
A Fixed costs		
B Fixed and variable costs		
C Neither fixed nor variable costs		
D Variable costs		
Answer: D		
Question 89		
According to a study by Dr.Anoop Misra, chairman Fortis C—DOC and his team, even non-obese and lean persons may be prone to		
A Type 1 diabetes		
B Arthritis		
C Thyroid problems		
D Type 2 diabetes		
Answer: D		
Question 90		
Which of the following was NOT one of the fields in which an award was given at the Pradhan Mantri Rashtriya Bal Puraskar 2019?		
A Scholastic		
B Bravery		
C Innovation		
D Science		
Answer: D		
Question 91		
Union Minister for Road Transport & Highways, Shipping Nitin Gadkari inaugurated a 1210-meter span-bridge over the river	in	
A Jhelum		
B Chenab		
C Ravi		
D Sutlej		
Answer: C		

Qu	estion 92			
According to the 'World Economic Situation and Prospects 2019' report, India's GDP growth is expected to accelerate to % in 2019-20.				
Α	7.6			
В	6.5			
С	8.1			
D	7.8			
1	Answer: A			
Qu	estion 93			
Dh	yan Chand Award 2018 Recipient for archery is bestowed upon for lifetime contribution to sports development.			
Α	Chougale Dadu Dattatray			
В	Bharat Kumar Chetri			
С	Satyadev Prasad			
D	Bobby Aloysius			
4	Answer: C			
	estion 94			
Ιh	e levels of glycated hemoglobin in blood are influenced by many factors. Which of the following is NOT one of them?			
Α	Anaemia			
В	Iron deficiency			
С	Pregnancy			
D	Loss of memory			
1	Answer: D			
Qu	estion 95			
Au	robindo Ghose was born in Calcutta (now Kolkata) on			
Α	29^{th} October 1765			
В	25^{th} September,1860			
С	15^{th} August,l972			
D	15^{th} August,1872			
4	Answer: D			
Qu	estion 96			

The Jallianwala Bagh massacre, also known as the Amritsar massacre, took place on in Jallianwala Bagh, Punjab.

Α	13 April 1919	
В	4 May 1929	
С	17 March 1909	
D	13 August 1867	
	Answer: A	
Qu	estion 97	
In January 2019, the Government of India assigned as the temporary additional charge of the Finance and Corporate Affairs Ministries in the absence of Finance IVIinister Arun Jaitley.		
Α	Vijay Kumar Singh	
В	Radha Mohan Singh	
С	Piyush Goyal	
D	Shripad Naik	
1	Answer: C	
Qu	estion 98	
Th	e first woman Chief Justice of High Court in India was	
Α	Indu Malhotra	
В	Ruma Pal	
С	Leila Seth	
D	Fatima Bibi	
4	Answer: C	
Qu	estion 99	
Wŀ	nich gas, in its solid state, is known as dry ice?	
Α	Hydrogen	
В	Oxygen	
С	Nitrogen	
D	Carbon-dioxide	
4	Answer: D	

Which of the following glands is called the master gland of the human body?

- A ThyroidB Pituitary
- C Adrenal
- **D** Liver

Answer: B

Quant

Instructions

For the following questions answer them individually

Ouestion 101

A and B start walking together from a point. Their steps measure 72 cm and 84 cm respectively. What is the minimum distance they should walk so that each takes exact number of steps?

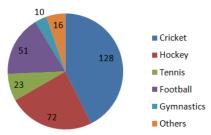
- **A** 5.04 m
- **B** 3.54 m
- **C** 6.3 m
- **D** 2.7 m

Answer: A

Question 102

The given pie-chart depicts the expenditure incurred in crores towards each sport.

Expense(in crores)



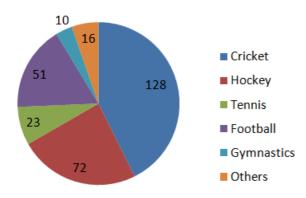
In the given pie-chart, what is the difference between the expenditure incurred on cricket and football?

- **A** 21
- **B** 56
- **C** 49
- **D** 77

Answer: D

Explanation:

Expense(in crores)



From Fig,

 $Expenditure \ on \ Cricket = 128$

 $Expenditure \ on \ football = 51$

 $Difference\ in\ Expenditure\ on\ Cricket-Expenditure\ on\ Football$

$$128 - 51 = 77$$

Question 103

A trader marks the cost of a car 24% above its price and allows a discount of 15%. If the discount is ₹ 2,23,200, then the cost price of the car is:

- **A** ₹ 14,25,000
- **B** ₹ 12,00,000
- **C** ₹ 15,80,000
- **D** ₹ 11,60,000

Answer: B

Question 104

The volume of wood required to make a closed box of thickness 2.5 cm with external dimensions $90cm \times 75cm \times 50cm$ is:

- **A** 69750 cm^3
- **B** 49050 cm^3
- **C** $36170 cm^3$
- **D** 46720 cm^3

Answer: A

Explanation:

Given,

Length, L = 90cm, Breadth, B = 75cm, Height, H = 50cm

Thickness=2.5cm

Volume of Outer box = $L \times B \times H = 90 \times 75 \times 50$

 $Volume\ of\ Outer\ box=337500cm^3$

 $To \ find \ the \ volume \ of \ inner \ box \ subtract \ thickness$

 $new\ Dimensions\ are$

L' = 90 - 5 = 85cm (2.5cm is subtracted from both sides)

B' = 75 - 5 = 70cm

B' = 50 - 5 = 45cm

 $Volume\ of\ inner\ box = L' \times\ B' \times\ H' = 85 \times\ 70 \times\ 45$

 $Volume\ of\ inner\ box = 267750cm^3$

 $Volume\ of\ wood = Volume\ of\ outer\ box - Volume\ of\ inner\ box$

 $Volume\ of\ wood = 337500 - 267750 = 69750cm^3$

Question 105

If the surface area of a cube IS 1944 $\,m^2$, its volume is:

- **A** 4912 m^3
- **B** 1648 m^3
- ${f C}$ 2744 m^3
- **D** 5832 m^3

Answer: D

Explanation:

Given,

 $surface\ area\ of\ cube=1944m^2$

we know that,

 $surface\ area\ of\ cube=6a^2$

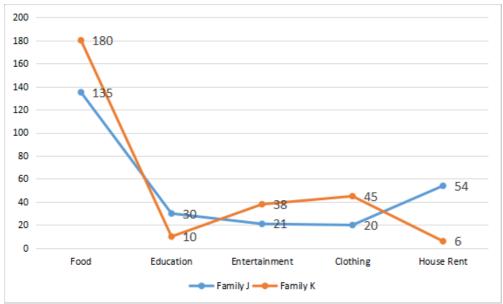
$$6a^2 = 1944$$

$$a=18$$

 $Volume\ of\ cube=a^3$

 $Volume\ of\ cube=18^3=5832m^3$

The line graph shows the monthly expenditure by two families in hundreds:



In the given line graph. what is the difference in percentage of spending on food between Family J and K?

- **A** 12.6%
- **B** 15.2%
- C 13.7%
- **D** 14.9%

Answer: A

Question 107

The speed of a boat in still water is 6 km/h. If it takes four times as much time as going upstream as in going same distance downstream, the speed of the stream is:

- **A** 2.5 km/h
- **B** 3.6 km/h
- **C** 5 km/h
- **D** 4.2 km/h

Answer: B

Question 108

Which of the following solids has the highest number of vertices?

- A Triangular Prism
- **B** Hexagonal pyramid
- **C** Tetrahedron
- D Cuboid

Answer: D

Explanation:

 $Vertices\ of\ Cuboid=8$

 $Vertices\ of\ Triangular\ prism=6$

 $Vertices\ of\ Hexagonal\ pyramid=7$

 $Vertices\ of\ Tetrahedron=4$

Question 109

The number 30744 is divisible by which of the single digit numbers:

- **A** Only by 2, 3, 6 and 9
- B All numbers except 5 and 7
- C All numbers except 5
- **D** Only by 2, 3 and 6

Answer: C

Question 110

 $(1+\cot^2\theta)(1-\cos^2\theta)$ is equal to:

- **A** 0
- **B** 1
- C Not defined
- \mathbf{D}

Answer: B

Explanation:

$$(1+\cot^2\theta)(1-\cos^2\theta)$$

$$\left(1+\frac{\cos^2 heta}{\sin^2 heta}
ight)\left(1-\cos^2 heta
ight)$$

$$\left(1+rac{\cos^2 heta}{\sin^2 heta}
ight)\left(\sin^2 heta
ight)$$

$$(\sin^2\theta + \cos^2\theta)$$

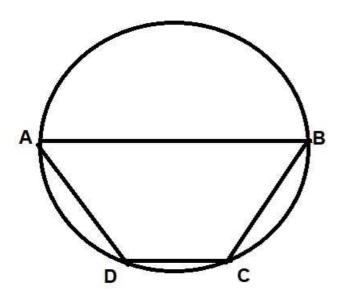
1

Question 111

ABCD is a cyclic quadrilateral such that AB is a diameter of the circle circumscribing it and angle $\,ADC=130^{\circ}$. Then angle BAC is equal to:

- A 150°
- B 40°
- C 50°

Explanation:



Given,

$$\angle\,ADC=130^\circ$$

we know that,

 $sum\ of\ opposite\ angle\ of\ cyclic\ quadrilateral=180^\circ$

$$\angle$$
 ADC + \angle *ABC* = 180°

$$130^{\circ} + \angle ABC = 180^{\circ}$$

$$\angle ABC = 50^{\circ}$$

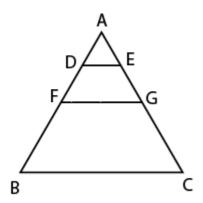
 $In \triangle ABC$,

$$\angle$$
 ABC = 50°, \angle BCA = 90° (Angle in semi circle)

$$\angle BAC = 40^{\circ}$$

Question 112

In the triangle given below, D and E are mid points of AF and AG respectively. F and G are Inid points of AB and AC respectively. If DE = 2.4 cm. then BC is equal to:



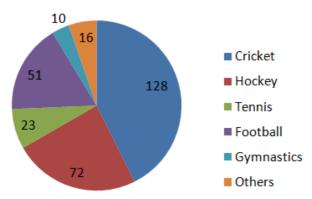
- **B** 3.6 cm
- **C** 9.6 cm
- **D** 7.2 cm

Answer: C

Question 113

The given pie-chart depicts the expenditure incurred in crores towards each sport.

Expense(in crores)



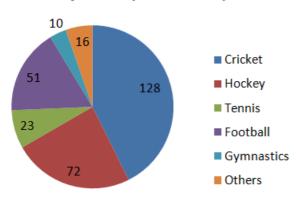
In the given pie-chart, what will be the central angle of the sector representing football?

- A 61.2°
- B 51°
- $c 72.2^{\circ}$
- D 24°

Answer: A

Explanation:

Expense(in crores)



According to question,

 $300 \ crores = 360^{\circ}$

$$1 \, crore = \begin{array}{c} 360^{\circ} & 65 \\ 300 & = 5 \end{array}$$

From Fig,

 $Expense\ on\ Football=51\ crore$

Angle representing Football = $51 \times {6 \atop 5} = 61.2^{\circ}$

A girl walks to school from her house at 5 km/h speed for 24 minutes and cycles back the same distance at 8 km/h. The time taken to cycle back is:

- A 15 minutes
- B 8 minutes
- C 10 minutes
- D 21 minutes

Answer: A

Explanation:

Let the $dis \tan ce from house to school be = x$

Question 115

The efficiency of A is thrice as that of B and efficiency of B is twice as that of C. If B alone can finish a work in 15 days, in how many days A and C together will complete that work?

- **A** $4^{\frac{2}{7}}$
- **B** $6^{\frac{1}{2}}$
- c_{75}^4
- **D** 4^{1}_{3}

Answer: A

Question 116

 $\sqrt{4+\sqrt{144}}$ is equal to:

- **A** 4
- **B** 12.17
- **C** 3.74
- **D** 14

Answer: A

Explanation:

$$\sqrt{4 + \sqrt{144}}$$

$$\sqrt{4+\sqrt{12} imes 12}$$

$$\sqrt{4+12}$$

$$\sqrt{16}$$

$$\sqrt{4 \times 4}$$

 $^3_5 imes 4[7-(^2_5 imes (13+2))]$ is equal to:

- **A** 0
- **C** 1
- D 2_5^2

Answer: D

Explanation:
$${}^3_5 \times 4\left[7-\left({}^2_5 \times (13+2)\right)\right]$$

 $By u \sin g BODMAS$

$$\begin{smallmatrix}3\\5\\\times\end{smallmatrix}$$
 4 $\left[7-\left(\begin{smallmatrix}2\\5\\\times\end{smallmatrix}\right.15\right)\right]$

$$^{3}_{5} \times \, 4 \, [7 - 6]$$

$$\frac{3}{5} \times 4$$

Question 118

From the monthly income, A spends 24% on household expenses, 16% on entertainment, 12% on education and saves the rest. Ifsavings are ₹ 3,288, the monthly income of A is:

- **A** ₹ 6,323
- **B** ₹ 6,480
- **C** ₹ 6,654
- ₹ 6,850

Answer: D

Question 119

The perimeter of floor of a square room is 230 m and height of the room is 5 m. The cost of painting the walls of the room at ₹ $7.50/m^2$ is:

- A ₹ 4,312.50
- ₹ 3,450
- ₹ 8,625
- ₹ 17,250

Answer: C

If $x+\frac{1}{x}=4\sqrt{3}$, then $x^2+\frac{1}{x^2}$ is equal to:

- **A** 52
- **B** 44
- **C** 56
- **D** 46

Answer: D

Question 121

Nidhi scores 62 marks in Mathematics, 70 in English, 74 in Science. What should be her score in Social Sciences so that she gets an overall 68%?

- **A** 65
- **B** 68
- **C** 67
- **D** 66

Answer: D

Explanation:

Given,

Maths = 62, English = 70, Science = 74

 $Overall\ percentage = 68\%$

Let $\max imum \ marks \ be = 100$

 $and\ marks\ of\ Social\ Science = x$

$$Percentage = rac{\mathit{Sum\ of\ marks\ obtained}}{\mathit{Total\ Marks}} \, imes \, 100$$

$$68 = {}^{62+70+74+x}_{400} \times 100$$

x = 66

Thus,

 $Marks\ of\ Social\ Science = 66$

Question 122

The average temperature for a week was $30^{\circ}C$. If the average temperature for first four days of the week was $31^{\circ}C$. then the average temperature for the remaining days of the week is:

- A $28.5^{\circ}C$
- B $28.67^{\circ}C$
- **C** $29.33^{\circ}C$
- D $29^{\circ}C$

Answer: B

Explanation:

Average Temperature of week = 30° (Given)

$$^{M+T+W+Th}_{4}=31^{\circ}~(Given)$$

$$M+T+W+Th=31 imes 4=\ 124$$
 Equation 2

Let the average temperature for remaining days = x

$${F+Sat+S \atop 3}=x$$
 Equation 3

 $By u \sin g \ equations 1, 2, 3, we get,$

$$x = 28.5$$

Thus,

the avg. temp. for remaining days = 28.5° C

Question 123

A boy walks from his house to the park which is 500 m away in 5 minutes and walks backs in 7 minutes. His average speed (in km/h) is:

- **A** 5
- B 1
- C 2.5
- **D** 12

Answer: A

Explanation:

Given,

The $dis \tan ce$ between hom e and park = 500m

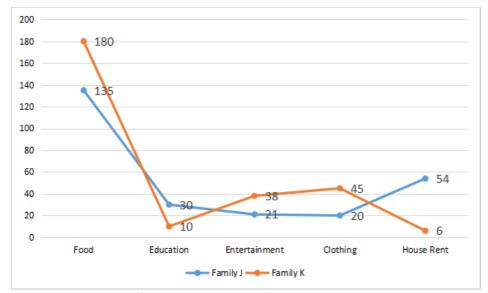
$$Average\ Speed = rac{ ext{Total Distance Covered}}{ ext{Total time taken}}$$

$$Average\ Speed = {}^{500+500}_{60}$$

$$Average\ Speed = 5000\ \sec^m$$

$$Average\ Speed = 5\ rac{Km}{hr}$$

The line graph shows the monthly expenditure by two families in hundreds:



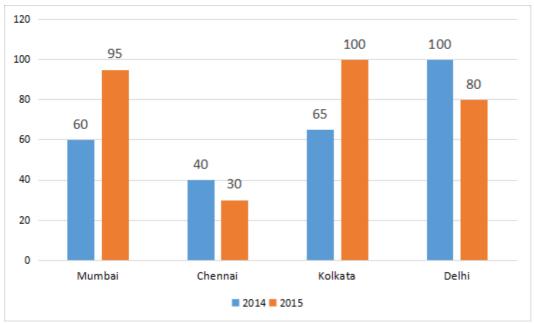
In the given line graph, if the monthly income of Family K increases to 33 7,200. What will be the increase in expenditure on entertainment? (Assuming they spend the same proportion as before, round off to one decimal)

- **A** 50.7
- **B** 43.8
- C 46.2
- **D** 51.9

Answer: A

Question 125

The given bar chart shows the sales of books (in thousands) in four metro branches of a company for the years 2014 and 2015.



In the given bar - chart. which branch has the highest increase in sale (in %) in 2015 as compared to 2014?

- **A** Mumbai
- **B** Kolkata

- c Delhi
- **D** Chennai

Answer: A

Explanation:

Total sale of Mumbai in 2014=60

Total sale of Mumbai in 2015=95

increase in sale from 2014 to 2015=95-60=35

percentage increase= $^{35}_{60} \times 100 = 58.33$

Question 126

The length, breadth and height of a box are 506 cm, 345 cm and 230 cm respectively. The length of the longest scale that will measure the three dimensions of the box is:

- **A** 30 cm
- **B** 15 cm
- **C** 46 cm
- **D** 23 cm

Answer: D

Explanation:

Given,

Length = 506cm

Breadth = 345cm

Height = 230cm

 $Length\ of\ the\ longest\ scale = HCF\ of\ 506,\ 345,\ 230$

HCF

$$506=~2\times~11\times~23$$

$$345 = 3 \times 5 \times 23$$

$$230=~2\times~5\times~23$$

$$HCF = 23$$

 $Length\ of\ longest\ scale=\ 23cm$

Question 127

What is the difference between the greatest four digit and the smallest four digit number using the digits 2, 9, 6 and 5 (each digit can be used only once)?

- **A** 7083
- **B** 6993
- **C** 6606
- **D** 7056

Answer: A

Explanation:

 $Given \ digits \ are \ 2, 9, 6, 5$

 $Smallest\ digit\ formed\ by\ given\ digits\ is\ =\ 2569$

 $Greatest\ digit\ formed\ by\ given\ digits\ is\ =\ 9652$

 $Difference\ between\ smallest\ and\ greatest\ digits =$

$$9652 - 2569 = 7083$$

Question 128

₹ 2,64,000 is invested for 3 years at 8.25% p.a. simple interest. The interest is:

- **A** ₹ 65,340
- **B** ₹ 87,120
- **C** ₹ 21,780
- **D** ₹ 43,560

Answer: A

Explanation:

Given,

 $principal\ amount\ =\ {\critical} 26400$

 $Rate\ of\ interest=\ 8.25\%\ p.a.$

 $Time\ period = 3\ years$

We know that,

$$S.I. = {(P \times r \times t) \atop 100}$$

$$S.I. = {(264000 \times 8.25 \times 3) \atop 100}$$

$$S.I. = 365340$$

Question 129

There are 50 paisa, 25 paisa and ₹ 1 coins in a bag in the ratio 5 : 8 : 1. If the total value of all the coins is ₹ 55. how many 25 paisa coins are there in the bag?

- **A** 10
- **B** 25
- **C** 50
- **D** 80

Answer: D

Explanation:

 $Let\ coins\ are$

$$\overline{1}$$
 coins = 1x

 $Value\ of\ \ \ 1\ coins\ =1x$

$$50 \ paise \ coins = 5x$$

$$Value\ of\ 50\ paise\ coins\ =\ {5x\over 2}$$

$$25 \ paise \ coins = 8x$$

$$Value\ of\ 25\ paise\ coins\ =\ {8x\over 4}$$

$$Total\ amount\ = ₹55$$

$$x + {5x \atop 2} + {8x \atop 4} = ₹55$$

$$x = 10$$

Number of 25 paise coins = $8x = 8 \times 10 = 80$

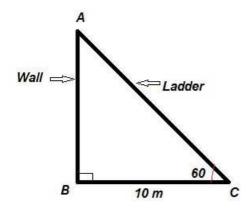
Question 130

A ladder leaning against a wall makes an angle of 60° with the horizontal. If the foot of the ladder is 10 m away from the wall. what is the length of the ladder?

- **A** 34.6 m
- **B** 40 m
- **C** 17.3 m
- **D** 20 m

Answer: D

Explanation:



Given,

$$\angle ACB = 60^{\circ}$$

We know that, $\cos\, heta \,=\, extit{Hypotenuse}$

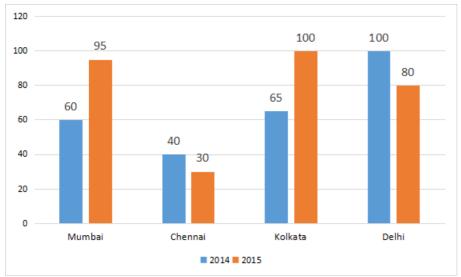
$$\cos \theta = \frac{BC}{AC}$$

$$\cos 60^{\circ} = {}^{10}_{AC}$$

$$\begin{array}{ccc} 1 & & 10 \\ 2 & = & AC \end{array}$$

$$AC = 20m$$

The given bar chart shows the sales of books (in thousands) in four metro branches of a company for the years 2014 and 2015.



In the given bar-chart. the ratio of total sales between Mumbai and Delhi is:

- **A** 23:25
- **B** 26:29
- C 31:36
- **D** 33:37

Answer: C

Explanation:

Total sale in Mumbai together in 2014&2015=60+95=155

Total sale in Delhi together in 2014&2015=100+80=180

Ratio=155:180=31:36

Question 132

On what sum of money. the interest for one year at 12% p.a. compounded half yearly is ₹ 1,545?

- **A** ₹ 12,500
- **B** ₹ 12,875
- **C** ₹ 25,750
- **D** ₹ 24,300

Answer: A

Explanation:

In compound interest,

Final amount,A= $P(1+r/n)^n t$.

where P is principal amount,r is rate of interest,n is number of times interest applied and t is number of times period elapsed.

So, interest gain = A - P.

So,
$$P(1+0.12/2)^2 - P = 1545$$
.

or, $P \times 1.1236 - P = 1545$.

or,P = (1545/0.1236).

or,P = 12500.

A is correct choice.

Question 133

₹ 7,80,516 is divided among A, B, C and D in the proportion of 2:3:4:3. The share of C is:

A ₹ 1,30,086

B ₹ 2,24,562

C ₹ 2,60,172

D ₹ 1,95,129

Answer: C

Explanation:

Share of C would be 4/(3+2+4+3) or (1/3) times of total dividend.

So, share of C = 780516/3 = 260172.

C is correct choice.

Question 134

PA and PB are two tangents to a circle with centre 0. from a point P outside the circle. A and B are points on the circle. If $\angle APB = 70^{\circ}$. then $\angle OAB$ is equal to:

A 50°

B 35°

 \mathbf{C} 20°

D 25°

Answer: B

Explanation:

$$\angle APB = 70^{\circ}$$

Then $\angle AOB = 110^{\circ}$

But triangle AOB is isosceles triangle as

$$AO = BO$$
.

So,
$$\angle OAB = \angle OBA$$
.

So,
$$2\angle OAB + \angle AOB = 180^{\circ}$$

or,
$$\angle OAB = 70/2 = 35\degree$$
 .

B is correct choice.

Question 135

What percentage is 3 cm in 12 m?

- **A** 0.025
- **B** 25
- C 0.25
- **D** 2.5

Answer: C

Explanation:

12m = 1200cm.

So,3 cm is (3/1200) imes 100 = 0.25 percent of 12m.

C is correct choice.

Question 136

The top of a broken tree touches the ground at an angle of 60° and at a distance of 45 m from the base of the tree. The total height of the tree is: (Use $\sqrt{3}=1.73$ and $\sqrt{2}=1.41$)

- **A** 167.85 m
- **B** 153.45 m
- **C** 141.3 m
- **D** 137.24 m

Answer: A

Explanation:

 $tan60^{\circ} = (heightofnonbrokenpart/45).$

So,height of non broken part = $45\sqrt{3} = 77.94$

So,

 $77.94^2 + 45^2 = heightofbrokenpart^2$

or, $heightofbrokenpart = \sqrt{8100} = 90$.

So, the height of tree = 77.94 + 90 = 167.94.

A is correct choice.

Question 137

A mobile cover costing ₹ 264 is available at a discount of 12%. What would be the selling price of 4 such mobile covers?

- **A** ₹ 940.46
- **B** ₹ 934.04
- **C** ₹ 929.28
- **D** ₹ 936.72

Answer: C

Explanation:

Selling price of one cover

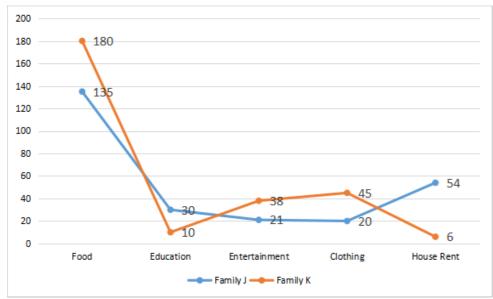
$$=264 \times 0.88 = 232.32$$

So, selling price of 4 cover

C is correct choice.

Question 138

The line graph shows the monthly expenditure by two families in hundreds:



In the given line graph. what is the ratio of the difference in spending between food and education for family J and K?

A 21:34

B 31:36

C 13:25

D 9:2

Answer: A

Explanation:

Difference between food and education for

family J = 135 - 30 = 105.

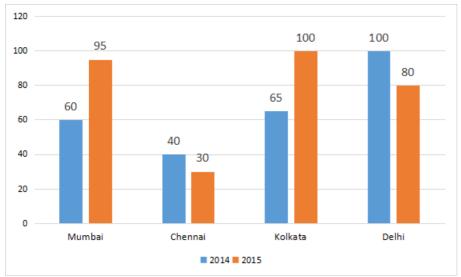
and family K = 180 - 10 = 170.

So, ratio between J and K is

= 105:170 = 21:34

A is correct choice.

The given bar chart shows the sales of books (in thousands) in four metro branches of a company for the years 2014 and 2015.



In the given bar-chart, calculate the percentage increment of sales between the year 2014 and 2015 (round off to one decimal).

- **A** 14.9%
- **B** 14.5
- C 15.1%
- **D** 13.7

Answer: C

Explanation:

Sales of 2014 = 60 + 40 + 65 + 100 = 265.

Sales of 2015= 95 + 30 + 100 + 80 = 305.

So, increment is = (305 - 265)/265.

=40/265=0.1509

So, C is correct choice.

Question 140

A diagonal of a quadrilateral is 40 cm. The length of the perpendiculars from opposite vertices is 7.5 cm and 8.6 cm. The area of the quadrilateral is:

- **A** $288 \ cm^2$
- **B** $322 \ cm^2$
- C $434 cm^2$
- **D** $368 cm^2$

Answer: B

Explanation:

Total area of the quadrilateral is

$$= (1/2) \times 40 \times 7.5 + (1/2) \times 40 \times 8.6$$

 $=322cm^{2}$.

So, B is correct choice.

If $4\tan\theta=3,\, {5\sin\theta-3\cos\theta\over 5\sin\theta+3\cos\theta}$ is equal to:

- $\mathbf{A} \quad \begin{array}{c} 1 \\ 9 \end{array}$
- **B** $\frac{1}{3}$
- **c** 9
- **D** 3

Answer: A

Explanation:

 $4 \tan \theta = 3$.

$$\operatorname{or,}\cos \theta = {3 \atop 4}.$$

Let say, $\sin \theta = 3k$ and $\cos \theta = 4k$.

So, $5\sin\theta - 3\cos\theta$ So, $5\sin\theta + 3\cos\theta$

$$= \begin{array}{c} 5 \times 3k - 3 \times 4k \\ = 5 \times 3k + 3 \times 4k \end{array}$$

$$= \begin{array}{c} 15k - 12k \\ = 15k + 12k \end{array}$$

$$= \frac{3k}{27k}$$

$$= 27i$$

$$=$$
 $\stackrel{1}{9}$.

A is correct choice.

Question 142

The angles of a triangle are 2x-3, x+12, x-1. The largest angle of the triangle is:

- **A** 55
- **B** 42
- **C** 94
- **D** 83

Answer: D

Explanation:

We know sum of all angles of a triangle is 180°.

So,
$$(2x-3) + (x+12) + (x-1) = 180$$
.

or,
$$4x + 8 = 180$$

or,
$$x = 172 \div 4 = 43$$
.

So, largest angle
$$= 2 \times 43 - 3 = 83$$
.

D is correct choice.

Question 143

If $(2x-5)^3+(x-4)^3+(x-11)^3=3(2x-5)(x-4)(x-11)$ then what is the value of x ?

A 5

B 7

C 3

D 18

Answer: A

Explanation:

If we go by options one by one. Let us take the value as 5.

RHS=
$$5^3 + 1^3 - 6^3 = 125 + 1 - 216 = -90$$
.

and

$$\text{LHS}{=3\times5\times1\times-6}=-90.$$

So, A is correct choice.

Question 144

If $a^3-b^3=416$ and a-b=8, then $(a+b)^2-ab$ is equal to:

A 38

B 32

C 52

D 42

Answer: C

Explanation:

$$(a^3 - b^3) = (a - b)(a^2 + ab + b^2)$$

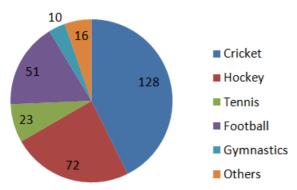
So,
$$(a^2 + ab + b^2) = 416 \div 8 = 52$$
.

C is correct choice.

Question 145

The given pie-chart depicts the expenditure incurred in crores towards each sport.

Expense(in crores)



In the given pie-chart, what is the ratio of expenditure between hockey and gymnastics?

- **B** 64:5
- **C** 16:9
- **D** 36:5

Answer: D

Explanation:

 ${\bf Hockey} = 72 crores.$

 ${\it Gymnastic} = 10 crores.$

so, Hockey: Gymnastic = 72:10 = 36:5.

D is correct choice.

Question 146

A sells 12 bicycles at a profit of ₹ 516 per bicycle and sells 3 bicycles at a loss of ₹ 129 per bicycle. If the total profit percentage on all the bicycles sold is 15%, the cost price per bicycle is:

- **A** ₹ 4440
- **B** ₹ 2960
- **C** ₹ 2580
- **D** ₹3870

Answer: C

Explanation:

Let say, cost price of a bicycle is X.

Cost price of 15 bicycle is 15X.

Then selling price of total 15 bicycle is

$$= 12(X + 516) + 3(X - 129) = (15X + 5805).$$

Selling price of 15 bicycle = $15 \times (1.15X)$.

So,
$$15X + 5805 = 17.25X$$

or,
$$2.25X = 5805$$

or,
$$X = 2580$$
.

C is correct choice.

Question 147

$$7 - (4 \times 3 - (-10) \times 8 \div (-4))$$
 is equal to:

- **A** 53
- **B** 0
- C -1
- **D** 15

Answer: D

Explanation:

So, C is correct choice.

Question 150

A pipe can fill a tank in 32 minutes. Due to a leakage, the tank gets filled in 48 minutes. The time the leakage will take to empty the full tank is:

- A 1 hour 56 minutes
- B 1 hour 42 minutes
- C 1 hour 20 minutes
- D 1 hour 36 minutes

Answer: D

Explanation:

LCM of (32, 48) = 96.

Let say,it will take X minutes to empty the full tank.

$$So_{\bullet}((1/32) - (1/X)) = (1/48)$$

$$Or_{\bullet}(1/X) = (1/32) - (1/48)$$

$$or(1/X) = (3-2)/96$$

or,
$$1/X = 1/96$$
.

So,
$$X=96$$
.

So, it will take 96 minutes or 1 hour 36 minutes to fill the tank.

English

Instructions

For the following questions answer them individually

Question 151

Identify the segment in the sentence, which contains the grammatical error.

These stray cattles are roaming around the town.

- A are roaming around
- **B** stray cattles
- C These
- **D** the town.

Answer: B

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Passage:			
The last manmroths, who were very large elephant-like animals, lived as recently as 4,000 years ago (1) their well-preserved bodies can be			
Question 152			
Select the most appropriate option to fill in blank No.1.			
A So			
B But			
C And			
D Because			
Answer: B			
Question 153			
Select the most appropriate option to fill in blank No.2.			
A unearthed			
B uncovered			
C found			
D got			
Answer: C			
Question 154			
Select the most appropriate option to fill in blank No.3.			
A them			
B its			
C their			
D they			
Answer: C			
Question 155			
Select the most appropriate option to fill in blank No.4.			
Select the most appropriate option to fill in blank No.4.			
A in			
B at			
C on			
D from			

Answer: A

Question 156 Select the most appropriate option to fill in blank No.5. Α Engineers Scientists Investigators Doctors Answer: B Instructions For the following questions answer them individually **Question 157** Select the wrongly spelt word. hospitable hasten humanitariun hostile Answer: C **Question 158** Select the most appropriate word for the given group of words. obsession with one particular thing A hypomania monornania insomnia pyromania Answer: B **Question 159** Select the antonym of the given word. **ENIGMATIC** mysterious

ambiguous

inscrutable **Answer:** C

straightforward

Question 160		
	lect the synonym of the given word. GABOND	
Α	visitor	
В	tourist	
С	tramp	
D	pilgrim	
1	Answer: C	
	estion 161	
	lect the most appropriate word to fill in the blanks.	
Th	e new typist is efficient the previous one.	
Α	such; as	
В	as; so	
С	so; that	
D	as; as	
1	Answer: D	
Qu	estion 162	
Se	lect the most appropriate word to fill in the blank.	
lt i	s not safe for children to on the road.	
Α	plays	
В	Play	
С	played	
D	playing	
1	Answer: B	
Qu	estion 163	
Ide	entify the segment in the sentence, which contains the grammatical error.	
I w	as not able to solve the questions as I was not knowing the answers.	
Α	was not knowing	
В	the answers	
С	able to solve	
D	I was not	

- fragmentation
- fugitive

Answer: B

Question 165

Select the most approprrate meaning of the grven idiom.

Miss the boat

- lose an opportunity
- accept defeat
- lose courage
- be too slow

Answer: A

Question 166

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. select No improvement.

Make sure that all the equipment has put away properly.

- all the equipment is put away
- all the equipment be putting away
- all the equipments have put away
- No improvement.

Answer: A

Question 167

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No improvement.

He didn't explain a great deal concerned the scheme though he spoke for a long time.

A a great deal to be concerned the scheme

В	a great deal as concerning as the scheme
С	a great deal concerning the scheme
D	No improvement.
1	Answer: C
Qu	estion 168
	lect the antonym of the given word. IMBER
Α	grim
В	calm
С	serious
D	cheerful
4	Answer: D
Qu	estion 169
Ide	entify the segment in the sentence, which contains the grammatical error.
Th	is is the boy which took away the books.
Α	which took away
В	the boy
С	the books
D	This is
	Answer: A
Qu	estion 170
	entify the segment in the sentence. which contains the grammatical error. til I do not get the loan. I cannot set up my business.
Α	I cannot
В	get the loan
С	set up
D	do not
4	Answer: D
Qu	estion 171
Se	lect the wrongly spelt word.
Α	expanditure

В	expansive
С	exhibition
D	exhausted
A	Answer: A
Qu	estion 172
	lect the antonym of the given word. NCENTRATED
Α	strong
В	thick
С	diluted
D	potent
1	Answer: C
	estion 173
Sel FA	lect the synonym of the gtven word. KE
Α	real
В	genuine
С	false
D	factual
ļ	Answer: C
Qu	estion 174
	lect the most appropriate meaning of the given idiom. n't cut the mustard
Α	to be successful
В	to render a service
С	to win a victory
D	to be unable to do a job
A	Answer: D
Qu	estion 175
	lect the antonym of the given word. DEOUS
Α	charming

В	ugly
С	grim
D	ideal
1	Answer: A
Qu	estion 176
Se	lect the most appropriate word for the gn en group of words.
SO	meone who is satisfied with life in general.
Α	contented
В	contentious
С	contemplative
D	cooperative
1	Answer: A
Qu	estion 177
	lect the most appropriate meaning of the given idiom. a nutshell
Α	in control
В	in short
С	in serious trouble
D	in disgrace
1	Answer: B
Qu	estion 178
Se	lect the most appropriate word to fill in the blank.
Th	e Max Hospital is within easy reach the people living in Saket.
Α	at
В	to
С	from
D	of
	Answer: D

Question 179				
Se	Select the most appropriate word to fill in the blank.			
Ka	Kavya picked up all the toys and put in a box.			
Α	them			
В	it			
С	this			
	that			
1	Answer: A			
Qu	estion 180			
	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement.			
Sh	e has been suffering <u>from malaria from the last four days</u> .			
Α	No improvement.			
В	of malaria from the last four days			
С	from malaria since the last four days			
	from malaria for the last four days			
1	Answer: D			
Qu	estion 181			
Se	estion 181 lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement.			
Se se	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it.			
Se se Ye	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement.			
Se se Ye	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle.			
Se se Ye	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle			
Se sel Ye A	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement.			
Se sel Ye A B C	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle			
Se sel Ye A B C	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle my brother repair his friend's bicycle my brother having repaired his friend's bicycle			
Se sel Ye A B C	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle my brother repair his friend's bicycle my brother having repaired his friend's bicycle			
Se sel Ye A B C	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle my brother repair his friend's bicycle my brother having repaired his friend's bicycle			
Se sel Ye A B C D Qu Se	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle my brother having repaired his friend's bicycle Answer: C			
Se sel Ye A B C D Qu Se A f	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle my brother having repaired his friend's bicycle Answer: C estion 182 lect the most appropriate meaning of the given idiom.			
Se sel Ye A B C D Qu Se A f	leet the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement. sterday I saw my brother to repair his friend's bicycle. my brother repairs his fi'iend's bicycle No improvement. my brother repair his friend's bicycle my brother having repaired his friend's bicycle Answer: C estion 182 leet the most appropriate meaning of the given idiom. ish out of water			

D	ready to die		
	Answer: B		
Qu	estion 183		
Se	lect the most appropriate word for the gIV en group of words.		
ext	treme fear of water		
Α	hydrophobia		
В	kleptomania		
	claustrophobia		
D	insomnia		
1	Answer: A		
Qu	estion 184		
Se	lect the most appropriate word for the given group of words.		
an	apparatus for reducing or increasing the voltage of an alternating current.		
Α	translucent		
В	transparent		
С	transformer		
D	transonic		
	Answer: C		
Qu	estion 185		
Se	lect the wrongly spelt word.		
Α	dwarf		
	dwelling		
	durable		
_	dwindel		
1	Answer: D		
Question 186			
	lect the synonym of the given word. BSTITUTE		
Α	replace		
В	displace		
С	reserve		

D	avoid
1	Answer: A
Qu	estion 187
Se	lect the most appropriate word to fill in the blank.
lf I	meet him, I give him your message.
A	would
В	could
С	should
D	will
4	Answer: D
Qu	estion 188
	lect the antonym of the given word. GOROUS
Α	forceful
В	enthusiastic
С	spiritless
D	energetic
1	Answer: C
Qu	estion 189
lde	entify the segment in the sentence. which contains the grammatical error.
Ha	rdly he had stepped out of the house when a tree fell on the roof.
A	fell on the roof
В	out of
С	Hardly he had
D	when a tree
1	Answer: C
Qu	estion 190
	lect the synonym of the given word. TRICATE
Α	remove
В	delete
С	complicate

D intricate

Answer: A

Question 191

Select the most appropriate meaning of the given Idiom. a dog's life

- A a miserable existence
- B a life full of freedom
- C a life spent in guarding something
- D a restful life

Answer: A

Instructions

Read the following passage and answer the questions given after it.

At least 200 species of 'mega fauna' are declining in number. finds research. Humans" meat-eating habits may be pushing at least 150 species of the planet's largest animals towards the threat of extinction. a study has found. The research was published in the journal Conservation Letters. Of nearly 300 species studied. 70 per cent are in decline. and 59 per cent of the species are threatened with disappearing from the globe, said William Ripple. a professor at the Oregon State University in the US.

"Direct harvest for human consumption of meat or body parts is the biggest danger to nearly all of the large species with threat data available." Ripple said. "Thus, minimising the direct killing of these vertebrate animals is an important conservation tactic that might save many of these iconic species as well as all of the contributions they make to their ecosystems." said Ripple.

Researchers were part of an international collaboration that built a list of mega fauna based on body size and taxonomy — qualifying for the list were species unusually large in comparison to other species in the same class. The mass thresholds the researchers decided on were 100 kg for mammals. ray-finned fish and cartilaginous fish and 40 kg for amphibians, birds and reptiles since species within these classes are generally smaller.

Over the past 500 years. as humans" ability to kill wildlife at a safe distance has become highly refined. two per cent of mega fauna species have gone extinct. For all sizes of vertebrates, the figure is 0.8 per cent. "our results suggest we're in the process of eating mega fauna to extinction." Ripple said. "Through the consumption of various body parts, users of Asian traditional medicine also exert heavy tolls on the largest species." he said. "In the future, 70 per cent will experience further population decline and 60 per cent of the species could become extinct or very rare," he added.

Nine mega fauna species have either gone extinct overall. or gone extinct in all wild habitats. in the past 250 years. including two species of giant tortoise. one of which disappeared in 2012. and two species of deer. "In addition to intentional harvesting. a lot of land animals get accidentally caught in snares and traps. and the same is true of gillnets, trawls and longlines in aquatic systems." Ripple said. "And there's also habitat degradation to contend with. When taken together, these threats can have major negative cumulative effects on vertebrate species," he said.

Question 192

The theme of the passage is

- A over the last 500 years humans have become skillful in killing animals
- **B** animals are becoming extinct due to the destruction of their habitat.
- **C** survival of vertebrates is important for the conservation of the ecosystem.
- **D** the human appetite is driving many animals to extinction

Answer: D

Which of the	following	falls in the	40 kg	category	<i>i</i> ?
--------------	-----------	--------------	-------	----------	------------

A	cartilaginous fish
В	ray-firmed fish
С	mammals
D	amphibians
,	Answer: D
	nestion 194 www.many.species.of.mega fauna are facing extinction as a result of the direct human consumption?
	The state of the s
A	250 species
В	150 species
С	200 species
D	300 species
,	Answer: B
Qu	estion 195
"Ir	tentional harvesting" refers to
Α	killing of animals for one's safety
В	killing of animals due to habitat degradation
С	accidental killing of animals in traps and snares
D	the killing of animals deliberately
	Answer: D
Qu	uestion 196
WI	nich statement is NOT true according to the passage?
Α	Nine mega fauna species have gone extinct in the past 250 years.
В	Two per cent of mega fauna species have gone extinct due to killing by humans.
С	In the future, 80 per cent of the species could become extinct or very rare.
D	Of the 300 species studied, 59 per cent are threatened with disappearing from the globe.
	Answer: C

Question 197			
Se	Select the most appropriate word for the given group of words.		
a s	um of money added to a person's wages as a reward for good performance.		
Α	remuneration		
В	allowance		
С	wages		
D	bonus		
1	Answer: D		
Ou	estion 198		
	lect the wrongly spelt word.		
Α	blessing		
В	blight		
С	blizaard		
D	blossom		
1	Answer: C		
Qu	estion 199		
	lect the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it. ect No improvement.		
	ch person <u>watching the procession</u> was provided with a flag.		
Α	No improvement.		
В	watched the procession		
С	having watched the procession was provided		
D	to watching the procession		
1	Answer: A		
Qu	estion 200		
	lect the synonym of the given word. ATUITOUS		
Α	grateful		
В	confidential		
С	unnecessary		
D	voluntary		

For the following questions answer them individually

Answer: A