



SSC CHSL 9 July 2019 Shift-3

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Reasoning

Instructions

For the following questions answer them individually

Question 1

If RUBY is coded as 264 and PAY is coded as 126, then how will RUPAY be coded as ?

- A 81
- B 145
- C 405
- D 375

Answer: C

Explanation:

The letters are numbered as per their position in the alphabetical series.

$$\text{RUBY} = 18+21+2+25 = 66 \times 4 = 264$$

$$\text{PAY} = 16+1+25 = 42 \times 3 = 126$$

The pattern is sum of alphabetical orders is multiplied with the number of alphabets.

$$\text{RUPAY} = 18+21+16+1+25 = 81 \times 5 = 405$$

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Question 2

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



A B C D E



Answer: B

Explanation:

Figure is moving 90 degree anti clock wise.

Question 3

Sona is sister of Ramesh and daughter of Mohit. Rama is wife of Mohit and Mother of Prabhat. How Ramesh is related to Prabhat?

- A Father
- B Brother
- C Son
- D Cousin

Answer: B

Question 4

Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All eggs are hens.

All hens are birds.

All birds are crows.

Conclusions:

I. All eggs are crows.

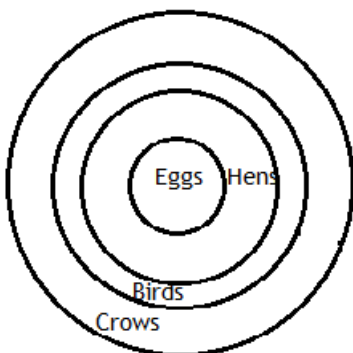
II. All hens are crows.

III. Some crows are birds.

- A Only conclusion I and II follow.
- B All conclusions I, II and III follow.
- C Only conclusion I follows.
- D Only conclusion II and III follow.

Answer: B

Explanation:



- I. All eggs are crows because all eggs are hens, all hens are birds and all birds are crows.
- II. All hens are crows because all hens are birds and all birds are crows.
- III. Some crows are birds because all birds are crows.

Question 5

Which two signs and two numbers should be interchanged in the following equation to make it correct?

$$18 + 25 - 10 \times 10 \div 5 = 203$$

A + and -, 18 and 25

B \times and -, 18 and 25

C \times and \div , 25 and 5

D + and \div , 18 and 5

Answer: B

Explanation:

$$18 + 25 - 10 \times 10 \div 5 = 203$$

After interchanging \times and -, 18 and 25

$$25 + 18 \times 10 - 10 \div 5 = 203$$

$$25 + 18 \times 10 - 2 = 203$$

$$25 + 180 - 2 = 203$$

$$203 = 203$$

Question 6

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

Ginger : Stem :: chilli : ?

A flower

B Stem

C root

D fruit

Answer: D

Explanation:

Ginger is an underground stem in the same way chilli is the fruit.

Question 7

Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.

OL, QO, __, UU, WX

A ST

B RS

C SU

D SR

Answer: D

Explanation:

O	L,	Q	O,	S	R,	U	U,	W	X
	+2		+2		+2		+2		
	+3		+3		+3		+3		

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Question 8

'Lizard' is related to 'Reptiles' in the same way as 'Toad' is related to '_____'.

- A Vertibreta
- B Reptiles
- C Mammals
- D Amphibians

Answer: D

Explanation:

Toad is a tailless amphibian with a short stout body and short legs, typically having dry warty skin that can exude poison.

Question 9

Select the set in which the numbers are related in the same way as are the numbers of the following set.
 (7, 4, 65)

- A (11, 8, 105)
- B (5, 4, 41)
- C (6, 4, 70)
- D (9, 6, 80)

Answer: B

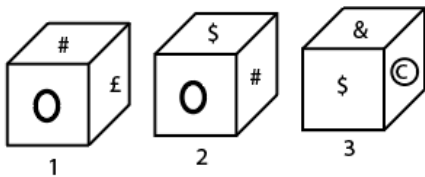
Explanation:

(7, 4, 65) pattern is $7^2 + 4^2 = 49 + 16 = 65$

In the same way (5, 4, 41) = $5^2 + 4^2 = 25 + 16 = 41$

Question 10

Three different positions of the same dice are shown. Select the option that will be opposite to the face having '\$'.



- A #
- B £
- C &

D ☐

Answer: B

Explanation:

Take two dice which contain common symbols . ex.we take last two dice \$ is same in both dice .

now start with common symbol and write in clockwise direction

\$ # 2

\$ & ☐ ..now we see

is opposite of &

2 is opposite to ☐ and

remaining £ is opposite to \$. so our ans is £.

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Question 11

Select the option in which the given figure X is embedded. (Rotation not allowed)



X



Answer: D

Explanation:

If we see the figure then we observe that figure is embedded in option D.



Question 12

Three of the following four words are alike in a certain way and one is different. Pick the odd word out.

- A Cat
- B Wolf
- C Cow
- D Goat

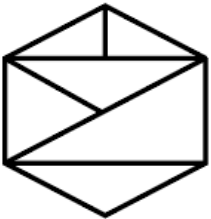
Answer: B

Explanation:

Except wolf all are Domestic animals.

Question 13

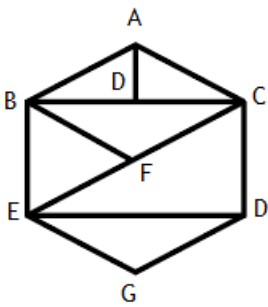
How many triangles are present in the following figure?



- A 8
- B 9
- C 12
- D 13

Answer: A

Explanation:



ABC, ABD, ACD, BCE, BCF, BEF, CDE, DEG

Hence, total number of triangle = 8.

Question 14

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair.
13 : 65

- A 19 : 95
- B 17 : 42
- C 12 : 45
- D 21 : 85

Answer: A

Explanation:

13 : 65 in the same way 19 : 95
 $\left[\begin{array}{c} \times 5 \end{array} \right]$ $\left[\begin{array}{c} \times 5 \end{array} \right]$

Question 15

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.
Important : Essential

- A Pick : Drop
- B Never : Always
- C Awful : Horrible
- D Up : Down

Answer: C

Explanation:

Important and Essential meaning are same, in the same way Awful and Horrible meaning are same.

Question 16

Select the set in which the numbers are related in the same way as are the numbers of the following set.
(16, 4, 80)

- A (13, 5, 78)
- B (6, 4, 40)
- C (5, 5, 70)
- D (11, 7, 77)

Answer: A

Explanation:

(16, 4, 80) pattern is $16 \times 4 + 16 = 80$

So, in the same way (13, 5, 78) = $13 \times 5 + 13 = 78$

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Question 17

Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- A 71
- B 87
- C 59
- D 73

Answer: B

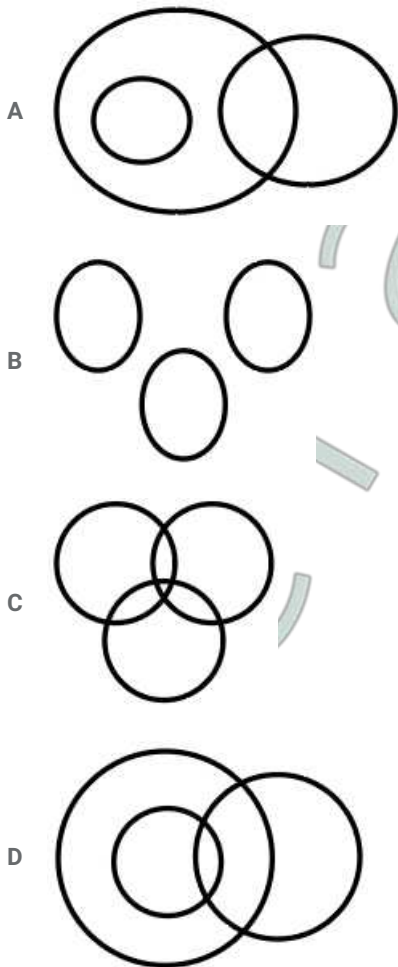
Explanation:

Except 87 all are prime numbers.

Question 18

Select the Venn diagram that best illustrates the relationship between the following classes.

Doctors, Males, Brothers



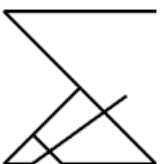
Answer: D

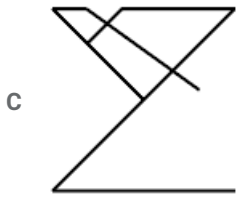
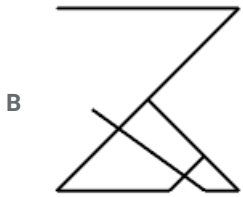
Explanation:

All brothers are male and some male and brothers are doctors.

Question 19

Select the correct mirror image of the given figure when the mirror is placed at the bottom of the figure.





Answer: C

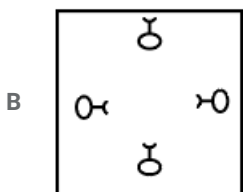
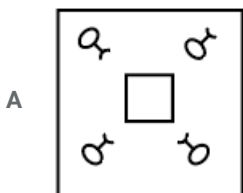
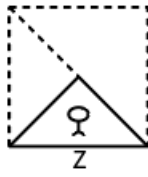
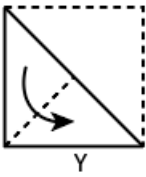
Explanation:

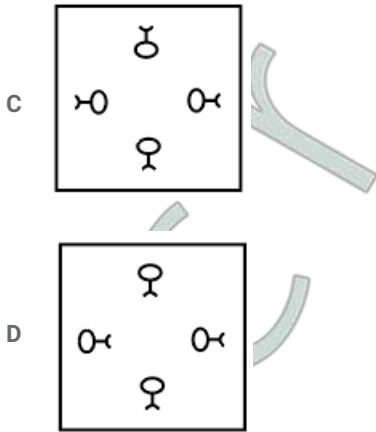
If the mirror is placed at bottom then then top will becomes bottom and bottom will becomes top.

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Question 20

A paper is folded and cut as shown in the following problem figures (X, Y and Z). Select the answer figure that depicts how the paper will appear when unfolded.





Answer: C

Explanation:

If we do by using practical paper and follow from the last figure then we observe that figure of option D will appear when unfolded.

Question 21

Which number will replace the question mark (?) in the following series ?
6, 10, 26, 62, ?

- A 92
- B 126
- C 216
- D 112

Answer: B

Explanation:

6,	10,	26,	62,	126
+4	+16	+36	+64	
2^2	4^2	6^2	8^2	

Question 22

Arrange the following words in a logical and meaningful order.

1. Childhood
2. Adulthood
3. Infancy
4. Adolescence
5. Senility

- A 5, 3, 1, 4, 2
- B 3, 1, 4, 2, 5
- C 4, 5, 1, 3, 2
- D 3, 2, 4, 1, 5

Answer: B

Explanation:

Following words are the stages of lifespan development,

So, according to the stages of life span development logical order= 3, 1, 4, 2, 5

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Question 23

What will be the day of the week on 15 August 2021 ?

- A Sunday
- B Wednesday
- C Saturday
- D Monday

Answer: A

Explanation:

15th August, 2021 = (2020 years + Period 1.1.2021 to 15.8.2021)

Odd days in 1600 years = 0

Odd days in 400 years = 0

20 years = (5 leap years + 15 ordinary years) = $(5 \times 2 + 15 \times 1) = 25 = 4$ odd days

Jan. Feb. March April May June July Aug. $(31 + 28 + 31 + 30 + 31 + 30 + 31 + 15) = 227$ days

227 days = (32 weeks + 3 days) = 3 odd days

Total number of odd days = $(0 + 0 + 7 + 3) = 7 = 0$ odd days

Given day is Sunday.

Question 24

Three of the following four letter-clusters are alike in a certain way and one is different. Pick the odd one out.

- A NPR
- B BDF
- C HJL
- D SUV

Answer: D

Explanation:

S	U	V
+2	+1	

Except option D all are +2 from previous word

Question 25

In a code language, MYCOLOGY is written as PBFRRJLV. How will AMMONIA be written as in that language?

- A DPPRQLX
- B DPJRQLX
- C DPQRQLD

D CPPSQJX

Answer: A

Explanation:

M	Y	C	O	L	O	G	Y	A	M	M	O	N	I	A
+3	+3	+3	+3	+3	+3	+3	-2	+3	+3	+3	+3	+3	+3	-3
P	B	F	R	O	R	J	V	D	P	P	R	Q	L	X

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General knowledge

Instructions

For the following questions answer them individually

Question 26

Which of the following is NOT an anti-virus software?

- A Avast
- B Linux
- C Norton
- D Kaspersky

Answer: B

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Question 27

According to Randsatnd Employer Brand Research 2019 Report, which of the following has been rated as India's most attractive employer brand?

- A Amazon India
- B Larsen and Toubro
- C Samsung
- D Microsoft

Answer: A

Question 28

Which of the following temples is correctly matched with its location?

- A Mallikarjuna-Andhra Pradesh
- B Somnath-Bihar
- C Trimbakeshwar-Karnataka
- D Baidyanathdham-Odisha

Answer: A

Question 29

In which of the following states is Ashtamudi Lake situated ?

- A Tamil Nadu
- B Odisha
- C Kerala
- D Andhra Pradesh

Answer: C

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Question 30

The National Institute of Mental Health and Neuro Sciences (NIMHANS) is located in:

- A Bengaluru
- B Puducherry
- C Kolkata
- D Indore

Answer: A

Question 31

Burzahom, the neolithic site, is located in _____.

- A Karnataka
- B Goa
- C Mizoram
- D Jammu and Kashmir

Answer: D

Question 32

Which of the following is a supercomputer developed by India ?

- A Param Yuva 2
- B Onshape
- C Venngage
- D Pixir

Answer: A

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Question 33

With which of the following sports is the Derby Trophy associated ?

- A Horse Racing
- B Snooker
- C Chess
- D Golf

Answer: A

Question 34

The 1979 Cricket World Cup was won by _____.

- A West Indies
- B Sri Lanka
- C England
- D Australia

Answer: A

Question 35

A savings fund in which both, the employer and the employee contribute regularly in the interest of the employee is known as:

- A Index Fund
- B Mutual Fund
- C Provident Fund
- D Balanced Fund

Answer: C

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Question 36

India and Asia's first Dolphin Research Centre will be set up in _____.

- A Patna
- B Varanasi
- C Devprayag
- D Haridwar

Answer: A

Question 37

With reference to Remote Sensing Technology, what does LIDAR stand for ?

- A Light Detection and Ranging
- B Light Direction and Revolving
- C Light Dimension and Reflection
- D Light Distraction and Refraction

Answer: A

Question 38

Which of the following rivers originates from Mahabaleshwar ?

- A Cauvery
- B Krishna
- C Tapi
- D Sabarmati

Answer: B

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Question 39

Which of the following is a ProKabbadi Team ?

- A Telugu Titans
- B Sunrisers Hyderabad
- C Delhi Capitals
- D Mumbai Indians

Answer: A

Question 40

Which of the following vehicles launched the RISAT-2B satellite in May 2019 from Satish Dhawan Space Centre ?

- A PSLV- C41
- B PSLV-C26
- C PSLV-C46
- D PSLV-C42

Answer: C

Question 41

Who is the author of the book 'The End of Imagination'?

- A Shobha De
- B Arundhati Roy
- C Amitav Ghosh
- D Chetan Bhagat

Answer: B

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Question 42

Who among the following first translated the 'Bhagvad Gita' into English?

- A George Yule
- B Vincent Arthur Smith
- C Max Muller
- D Charles Wilkins

Answer: D

Question 43

Who among the following was appointed as the first Viceroy of British India?

- A Lord Canning
- B Lord Wavell
- C Lord Irwin
- D Lord Mayo

Answer: A

Question 44

Which of the following companies is a Navratna company?

- A Rashtriya Chemicals and Fertilizers Limited
- B Coal India Limited
- C Steel Authority of India Limited
- D Engineers India Limited

Answer: D

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Question 45

Which of the followings, is NOT a Peninsular river ?

- A Alaknanda
- B Krishna
- C Narmada
- D Mahanadi

Answer: A

Question 46

Which of the following Articles of the Constitution of India is associated with the election of the President of India?

- A Article 103
- B Article 78
- C Article 74
- D Article 54

Answer: D

Question 47

Who among the following was appointed as the first Deputy Speaker of the Lok Sabha?

- A M. Ananthasayanam Ayyangar
- B G V Mavalankar
- C Vithalbhai J Patel
- D V Narahari Rao

Answer: A

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Question 48

Who was appointed as the new Director General of Inter Service Intelligence (ISI) of Pakistan in June 2019?

- A Faiz Hameed
- B Hamid Gul
- C Rizwan Akhtar
- D Riaz Hussain

Answer: A

Question 49

The Hirakud Dam is built across the river:

- A Damodar
- B Tungabhadra

C Mahanadi

D Koyna

Answer: C

Question 50

'Freedom in Exile' is the autobiography of :

A Mahatma Gandhi

B Nelson Mandela

C Dalai Lama

D Jiddu Krishnamurti

Answer: C

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Quant

Instructions

For the following questions answer them individually

Question 51

The simplified value of $\frac{1.0025+6.25 \times 10^{-6}}{0.0025+0.95}$ is:

A 1.0025

B 1.0525

C 1.0005

D 1.0505

Answer: B

Explanation:

$$\frac{1.0025+6.25 \times 10^{-6}}{0.0025+0.95}$$

$$\frac{(1.0025+0.00000625)}{0.9525} = \frac{1.00250625}{0.9525} = 1.0525$$

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Question 52

If $(3x + 1)^3 + (x - 3)^3 + (2x - 4)^3 = 6(3x + 1)(x - 3)(x - 2)$, then x is equal to:

A 3

B 1

C 2

D $-\frac{1}{3}$

Answer: B

Question 53

If $a : b : c = 1 : 3 : 5$, what is the value of $\frac{4a-b+2c}{3(a+b+c)}$?

A $\frac{8}{27}$

B $\frac{10}{27}$

C $\frac{11}{27}$

D $\frac{1}{3}$

Answer: C

Explanation:

Let $a = x$; $b = 3x$, $c = 5x$

$$\frac{4a-b+2c}{3(a+b+c)} = \frac{(4x-3x+10x)}{3(x+3x+5x)} = \frac{11}{27}$$

Question 54

If A, B and c can respectively complete a piece of work in 20, 24 and 36 days respectively, how many days will they take to complete the work, if they work together ?

A $\frac{16}{843}$

B $\frac{1}{64}$

C $\frac{1}{94}$

D $\frac{19}{720}$

Answer: A

Explanation:

A=20 days, B = 24 days and C = 36 days

Total work = L.C.M of 20, 24, 36 = 360 units

$$A's\ 1\ day\ work = \frac{360}{20} = 18\ units$$

$$B's\ 1\ day\ work = \frac{360}{24} = 15\ units$$

$$C's\ 1\ day\ work = \frac{360}{36} = 10\ units$$

$$A+B+C\ will\ take\ to\ complete\ the\ work = \frac{360}{43} = \frac{16}{43}$$

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Question 55

The diagonals of a rhombus are respectively 4 cm and 12 cm. Its area (in cm^2) is equal to:

A 12

B 24

C 36

D 8

Answer: B

Explanation:

Area of rhombus when diagonals is given = $\frac{1}{2} \times d_1 \times d_2 = \frac{1}{2} \times 4 \times 12 = 24cm^2$

Question 56

For an examination of a practical based subject, the total marks is 100. The break-up for theory, practical, project and viva voce is 40%, 30%, 20%, 10%. A candidate scored 80% in theory, 70% in practical, 60% in project and 50% in viva voce. What was her aggregate percentage ?

A 70

B 72

C 68

D 67

Answer: A

Explanation:

$$\text{Theory} = 40 \times \frac{80}{100} = 32$$

$$\text{Practical} = 30 \times \frac{70}{100} = 21$$

$$\text{Project} = 20 \times \frac{60}{100} = 12$$

$$\text{Viva} = 10 \times \frac{50}{100} = 5$$

$$\text{Aggregate\%} = 32 + 21 + 12 + 5 = 70\%$$

Question 57

If θ is an acute angle, and it is given that $5 \sin \theta + 12 \cos \theta = 13$, then what is the value of $\tan \theta$?

A $\frac{5}{13}$

B $\frac{13}{12}$

C $\frac{12}{13}$

D $\frac{5}{12}$

Answer: D

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Question 58

If I travel by bus, I reach my office 15 min late, and if I travel by car, I reach 10 min early. If the distance between my home and my office is 25 km, then the difference of the reciprocals of average speeds of the bus and the car, in second per metre is:

A $\frac{3}{25}$

B $\frac{100}{3}$

C $\frac{3}{20}$

D $\frac{3}{10}$

Answer: B

Explanation:

Speed by bus = $\frac{25000}{900} = \frac{250}{9} \frac{m}{s}$ (Since 1 km = 1000m and 1 min = 60s)

Speed by car = $\frac{25000}{600} = \frac{250}{6} \frac{m}{s}$

Average speed = $\frac{2xy}{x+y}$

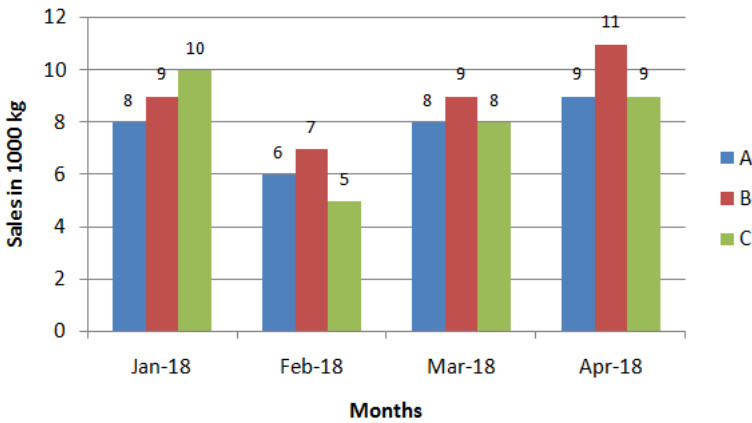
$2xy = 2 \times \frac{250}{9} \times \frac{250}{6}$

$x+y = \frac{250}{9} + \frac{250}{6} = \frac{1250}{18}$

$\frac{2xy}{x+y} = \frac{100}{3} \frac{m}{s}$

Question 59

The given Bar Graph presents the sale (in 1000 kg) of a particular brand of tea by three outlets, A, B and C during the months Jan, Feb, Mar and Apr, 2018.



What is the ratio of rate of growth in sales from B to the rate of growth in sales from C in Mar 2018 with reference to its previous month ?

- A 9 : 16
- B 10 : 19
- C 9 : 19
- D 10 : 21

Answer: D

Explanation:

Sales of B in march 2018 = 9000 and Sales of B in feb 2018 = 7000

Growth rate of B = $\frac{(2000 \times 100)}{7000} = \frac{200}{7}$

Sales of C in march 2018 = 8000 and Sales of C in feb 2018 = 5000

Growth rate of C = $\frac{(3000 \times 100)}{5000} = \frac{300}{5}$

Required ratio = $\frac{200}{7} : \frac{300}{5} = 10 : 21$

Question 60

The circumcentre, incentre, orthocentre and the centroid of a triangle are one and the same point. The triangle must be:

- (a) isosceles (b) right-angled (c) right-angled isosceles (d) equilateral

A (a)

B (d)

C (b)

D (c)

Answer: B

Explanation:

In equilateral triangle the circumcentre, incentre, orthocentre and the centroid of a triangle are one and the same point.

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Question 61

Which among the following increases continuously in the range $0^\circ < \theta < 90^\circ$?

A $\cot \theta$

B $\operatorname{cosec} \theta$

C $\tan \theta$

D $\cos \theta$

Answer: C

Explanation:

In $\tan \theta$ the value from $0^\circ < \theta < 90^\circ$ will increase continuously.

Question 62

The value of the expression $\frac{1}{4} \left\{ \left(a + \frac{1}{a} \right)^2 - \left(a - \frac{1}{a} \right)^2 \right\}$ is:

A $\frac{1}{2}$

B $\frac{1}{4}$

C 1

D 4

Answer: C

Explanation:

$$\frac{1}{4} \left\{ \left(a + \frac{1}{a} \right)^2 - \left(a - \frac{1}{a} \right)^2 \right\}$$

$$\frac{1}{4} \left\{ a^2 + \frac{1}{a^2} + 2 - \left(a^2 + \frac{1}{a^2} - 2 \right) \right\}$$

$$\frac{1}{4} \left\{ a^2 + \frac{1}{a^2} + 2 - a^2 - \frac{1}{a^2} + 2 \right\}$$

$$\frac{1}{4} \times 4 = 1$$

Question 63

A certain sum invested on compound interest grows to ₹8,000 and ₹27,000 in three and six years, respectively when the interest is compounded annually. What is the percentage rate of interest?

A 25

B 0.5

C 50

D 10

Answer: C

Explanation:

$$A = P \left(1 + \frac{r}{100}\right)^n$$

$$27000 = P \left(1 + \frac{r}{100}\right)^6 \text{-----I}$$

$$8000 = P \left(1 + \frac{r}{100}\right)^3 \text{-----II}$$

Dividing I by II we get,

$$\frac{27}{8} = P \left(1 + \frac{r}{100}\right)^3$$

$$\frac{3}{2} = 1 + \frac{r}{100}$$

$$\frac{r}{100} = \frac{1}{2}$$

$$r = 50$$

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Question 64

For θ being an acute angle, it is given that, $3(\operatorname{cosec}^2 \theta + \cot^2 \theta) = 5$. Then θ is equal to:

A 45°

B 60°

C 0°

D 30°

Answer: B

Explanation:

$$3(\operatorname{cosec}^2 \theta + \cot^2 \theta) = 5$$

$$(1 + \cot^2 \theta) + (1 + \cot^2 \theta) + (1 + \cot^2 \theta) + 3 \cot^2 \theta = 5 \quad ((1 + \cot^2 \theta) = \operatorname{cosec}^2 \theta)$$

$$3 + 3 \cot^2 \theta + 3 \cot^2 \theta = 5$$

$$\cot^2 \theta = \frac{1}{3}$$

$$\cot \theta = \frac{1}{\sqrt{3}}$$

$$\theta = 60^\circ$$

Question 65

The seven digit number $78x1y68$ is divisible by 88. The value of $(x + y)$ is:

A 13

B 10

C 0

D 14

Answer: C

Explanation:

78 x 1 y 68 is divisible by 88 means it will be divisible by 11 and 8

So, the number will be divisible 8 if last three digits is divisible by 8 so, $y = 1, 3, 5, 7, 9$

but for divisibility by 11 the sum of odd digit places no - sum of even digit place no will be 0

$$(7 + x + y + 8) - (8 + 1 + 6) = 0$$

$$15 + x + y - 15 = 0 \text{ so } x+y = 0$$

Question 66

Two items are sold for ₹18,602, each. On one item there has been a gain of 31% and on the second item a loss of 29%. What was the overall loss or gain in the transaction ?

- A Loss 7.91%
- B Loss 8.25%
- C Gain 8.25%
- D Gain 7.91%

Answer: A

Explanation:

$$\text{C.P of first items} = 18602 \times \frac{100}{131} = 14200$$

$$\text{C.P of second item} = 18602 \times \frac{100}{71} = 26200$$

$$\text{Total C.P} = 14200 + 26200 = \text{Rs}40400$$

$$\text{Total S.P} = 18602 + 18602 = \text{Rs}37204$$

$$\text{Overall loss \%} = \frac{(3196 \times 100)}{40400} = 7.91\%$$

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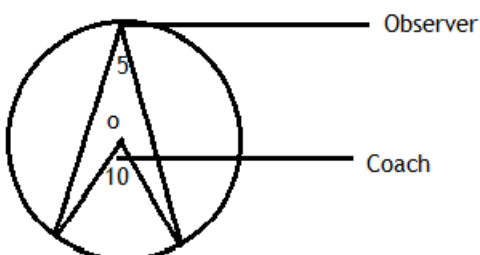
Question 67

In a stadium an athlete is running on circular path with uniform speed during a practice session. The angle covered by him during one second is found to be 10° by a coach observing him from the centre of the circular track. What would be the measure of angle (in degrees) described by the athlete by an observer standing on the circle ?

- A 5
- B It depends on the exact position of the observer on the circle
- C 10
- D 20

Answer: A

Explanation:



As we know that the angle made at the centre by the chord is twice the angle made by the chord at the circumference.

Observers is standing on circle and coach is observing him from the centre that 10 degree in 1 sec.

So observer will observes 5 degree.

Question 68

The simplified value of $2\frac{1}{3}$ of $(\frac{3}{5} \div \frac{2}{9}) - (4\frac{2}{5} + \frac{19}{20} \div \frac{1}{2})$ is:

- A 0
- B $\frac{1}{4}$
- C $\frac{1}{2}$
- D 1

Answer: A

Explanation:

$$2\frac{1}{3} \text{ of } (\frac{3}{5} \div \frac{2}{9}) - (4\frac{2}{5} + \frac{19}{20} \div \frac{1}{2})$$

$$\frac{7}{3} \times (\frac{3}{5} \times \frac{9}{2}) - (\frac{22}{5} + \frac{19}{20} \times 2)$$

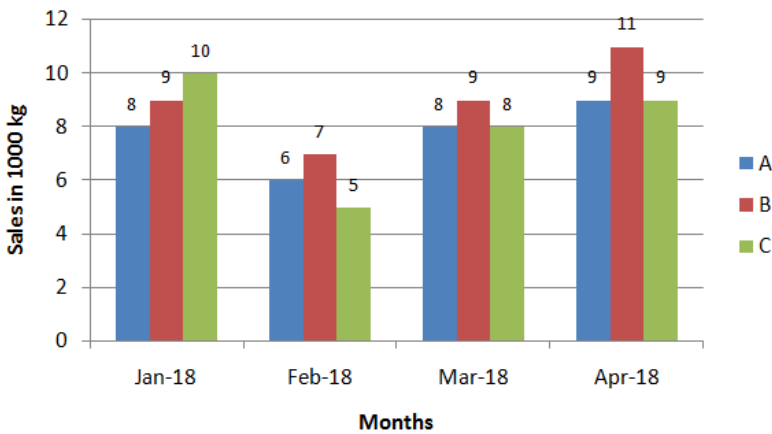
$$\frac{7}{3} \times \frac{27}{10} - (\frac{22}{5} + 10)$$

$$\frac{189}{30} - \frac{63}{10}$$

$$\frac{(189-189)}{30} = 0$$

Question 69

The given Bar Graph presents the sale (in 1000 kg) of a particular brand of tea by three outlets, A, B and C during the months Jan, Feb, Mar and Apr, 2018.



What is the average sale per month by A during Jan-Mar, 2018 ?

- A 7333.33 kg
- B 7505 kg
- C 7334.67 kg
- D 5500 kg

Answer: A

Explanation:

Average sale per month by A during Jan-Mar, 2018 = $\frac{(8+6+8)}{3} = 7333.33 \text{ kg}$

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Question 70

Two chords AB and CD of a circle intersect at a point O inside the circle. It is given that $AO = 1$ cm, $AB = 13$ cm, $CD = 8$ cm. What is the ratio between the larger and smaller section among CO and OD ?

A 11 : 5

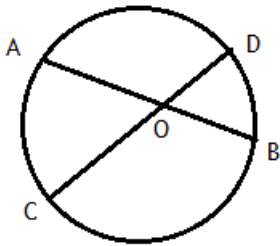
B 9 : 7

C 3 : 1

D 5 : 3

Answer: C

Explanation:



Two chords AB and CD of a circle intersect at a point O inside the circle then,

$$AO \times OB = CO \times OD$$

Let CO be x cm and its larger one. So, $OD = (8 - x)$ cm

$$1 \times 12 = x(8 - x)$$

$$12 = 8x - x^2$$

$$x^2 - 8x + 12 = 0$$

$$x^2 - 6x - 2x + 12 = 0$$

$$x(x - 6) - 2(x - 6)$$

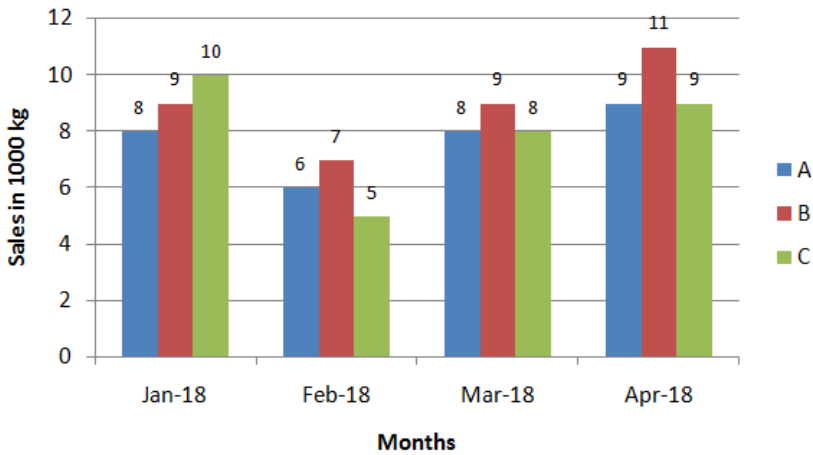
$$x = 6, 2$$

So, $CO = 6$ and $OD = 2$

$$CO:OD = 6:2 = 3:1$$

Question 71

The given Bar Graph presents the sale (in 1000 kg) of a particular brand of tea by three outlets, A, B and C during the months Jan, Feb, Mar and Apr, 2018.



By how much quantity is the average sale per month from B more or less than that from C ?

- A More by 500 kg
- B Less by 1000 kg
- C Less by 800 kg
- D More by 1000 kg

Answer: D

Explanation:

$$\text{Average sale per month of B} = \frac{(9000+7000+9000+11000)}{4} = 9000$$

$$\text{Average sale per month of C} = \frac{(10000+5000+8000+9000)}{4} = 8000$$

So, B is more than C by 1000 kg.

Question 72

In a triangle ABC, PQ is a straight line parallel to AC, such that Area ABC : Area PBQ = 3 : 1 Then CB : CQ is equal to:

- A $\frac{\sqrt{3}}{2} (\sqrt{3} + 1)$
- B $\frac{\sqrt{3}}{2} (\sqrt{3} - 1)$
- C $\frac{\sqrt{3}}{2}$
- D $\frac{\sqrt{3}-2}{2}$

Answer: A

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Question 73

An article is sold for ₹688.16 after two successive discounts of 12% and 8% respectively. What is its marked price?

- A ₹800

B ₹900

C ₹820

D ₹850

Answer: D

Explanation:

Let the M.P be Rs x

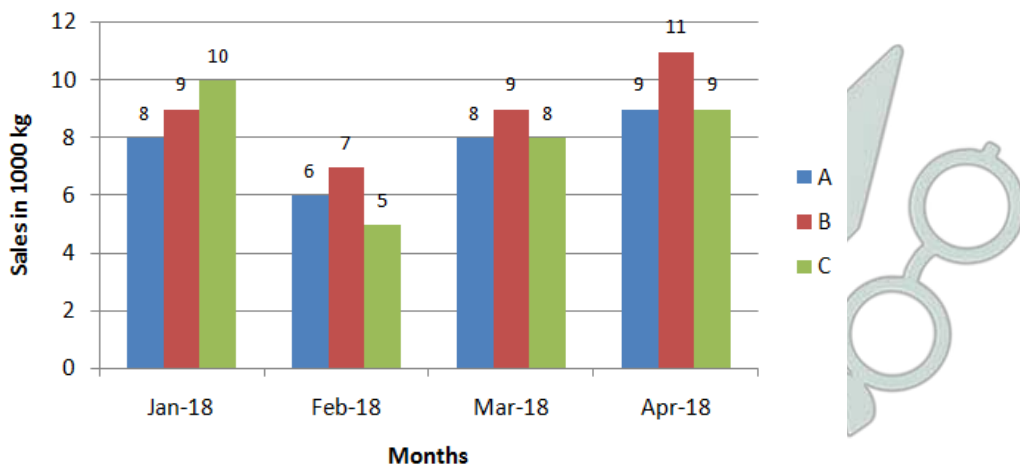
According to the question,

$$x \times 100 \times \frac{88}{100} \times \frac{92}{100} = 688.16$$

$$x = \text{Rs}850$$

Question 74

The given Bar Graph presents the sale (in 1000 kg) of a particular brand of tea by three outlets, A, B and C during the months Jan, Feb, Mar and Apr, 2018.



Arrange the ratio of sales from B to that from A and C, taken together, month wise in ascending order.

A Jan, Mar, Feb, Apr

B Jan, Mar, Apr, Feb

C Jan, Feb, Mar, Apr

D Jan, Apr, Mar, Feb

Answer: B

Question 75

The average of a number and its reciprocal is 4. The average of its cube and its reciprocal is equal to:

A 256

B 142

C 288

D 244

Answer: D

Explanation:

Let the number be x and its reciprocal is $\frac{1}{x}$

Average of x and $\frac{1}{x} = 4$

$$\frac{x + \frac{1}{x}}{2} = 4$$

$$x + \frac{1}{x} = 8$$

Cubing both side, we get

$$x^3 + \frac{1}{x^3} + 3(x + \frac{1}{x}) = 512$$

$$x^3 + \frac{1}{x^3} + 24 = 512 \quad (x + \frac{1}{x} = 8)$$

$$x^3 + \frac{1}{x^3} = 512 - 24 = 488$$

$$\text{Required average} = \frac{488}{2} = 244$$

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate synonym of the given word.

ANOMALOUS

- A indirect
- B common
- C unhealthy
- D peculiar

Answer: D

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Question 77

Select the wrongly spelt word.

- A comencement
- B continuation
- C resentment
- D triangulation

Answer: A

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 blank.

Comprehension:

After a lesson on negative sentences, a pupil tells his teacher, "I ain't got no pencils." She corrects him immediately saying, "The correct way to say (1) _____ is, "I don't have any pencils". "We don't (2) _____ any pencils." "He (3) _____ have any pencils. They don't have any pencils. (4) _____ you understand?" asks the teacher. "No," the boy answers, astonished. "(5) _____ happened to all the

pencils?"

Question 78

Select the most appropriate option to fill in blank No.1.

- A it
- B them
- C which
- D those

Answer: A

Question 79

Select the most appropriate option to fill in blank No.2.

- A have
- B had
- C has
- D having

Answer: A

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Question 80

Select the most appropriate option to fill in blank No.3.

- A do
- B does
- C doesn't
- D don't

Answer: C

Question 81

Select the most appropriate option to fill in blank No.4.

- A Does
- B Have
- C Do
- D Doesn't

Answer: C

Question 82

Select the most appropriate option to fill in blank No.5.

- A How
- B Where
- C Which
- D What

Answer: D

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Instructions

For the following questions answer them individually

Question 83

Select the most appropriate antonym of the given word.

MENTAL

- A brainy
- B ability
- C strength
- D physical

Answer: D

Question 84

Select the most appropriate word for the given group of words

A person who is skilled at writing beautifully

- A painter
- B artist
- C calligrapher
- D cartoonist

Answer: C

Question 85

Select the most appropriate word to fill in the blank.

The Chairman advised them to build a bridge between the two companies using _____ and compromise.

- A negotiation
- B competition
- C control
- D strength

Answer: A

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Question 86

Select the correctly spelt word.

- A turbulence
- B turbulance
- C turbulence
- D turbulense

Answer: C

Question 87

Select the most appropriate word for the given group of words
The statistical study of the population

- A demography
- B sociology
- C psychology
- D anthropology

Answer: A

Question 88

Select the most appropriate synonym of the given word.
FLEETING

- A complete
- B momentary
- C ready
- D lasting

Answer: B

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Question 89

Select the correct indirect form of the given sentence.
The doctor told his patient, "Continue the same course of medicines for the next week."

- A The doctor told his patient to continued the same course of medicines in the next week.
- B The doctor told his patient for continuing the same course of medicines for the next week.
- C The doctor told his patient that he may continue the same course of medicines in the following week.
- D The doctor told his patient to continue the same course of medicines for the following week.

Answer: D

Question 90

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.

The express bus generally stops at only the major towns on the route.

- A generally stopped from only the major towns
- B No improvement
- C generally stopping on only the major towns
- D generally stop in only the major towns

Answer: B

Question 91

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

The childrens are fond of climbing the mango tree in the garden.

- A climbing the mango tree
- B are fond of
- C in the garden
- D The childrens

Answer: D

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Question 92

Select the most appropriate word to fill in the blank.

It is not _____ of language that makes one an ineffective speaker; it is the dearth of ideas.

- A difficulty
- B complexity
- C intricacy
- D poverty

Answer: D

Question 93

Select the most appropriate meaning of the given idiom

late in the day

- A too old to work
- B too ripe to eat
- C too dark to see anything

D too delayed to be of any use

Answer: D

Question 94

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.

If I does not pay my post-paid mobile bill by tomorrow I will probably have to pay a fine.

A If I had not paid

B No improvement

C If I has not paid

D If I do not pay

Answer: D

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Question 95

Select the correct passive form of the given sentence.

They will not allow mobile phones in the examination hall.

A Mobile phones were not allowed in the examination hall.

B Mobile phones are not being allowed in the examination hall.

C Mobile phones will not be allowed in the examination hall.

D Mobile phones are not allowed in the examination hall.

Answer: C

Question 96

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. But now that his father had asked him to fetch some cheroots, he would have to pass by the high school to reach the shop.
- B. The teachers and students would all be there, and he was ashamed of being seen outdoors.
- C. Of late Krishna had confined himself to the four walls of the house.
- D. Wondering how to get past the school unnoticed, he slowly ventured out.

A CBDA

B ACBD

C CABD

D DACB

Answer: C

Question 97

Select the most appropriate antonym of the given word.

CHRONIC

A routine

- B regular
- C infrequent
- D continuing

Answer: C

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Question 98

Select the most appropriate meaning of the given idiom
draw a blank

- A be unsuccessful
- B be happy about something
- C be unable to sketch
- D be lucky in a game

Answer: A

Question 99

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

The two states frequently has differences over the use of the river water especially during the summer months.

- A over the use of the river water
- B The two states frequently
- C has differences
- D especially during the summer months

Answer: C

Question 100

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. Today, man is master of the world and he makes the animals do what he likes.
- B. Others he eats; and those like the lion and the tiger, he shoots for pleasure.
- C. Early man, when he first came, must have been surrounded by many huge animals, and he must have lived in fear of them.
- D. Some he tames like the horse, the cow, the elephant, the dog, the cat and so many others.

- A CADB
- B CBDA
- C ACBD
- D BCDA

Answer: A

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