



SSC CHSL 10 July 2019 Shift-1

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Reasoning

Instructions

For the following questions answer them individually

Question 1

In a code language, TRILOGY is written as OGYLTRI. How will FRAGILE be written as in that language?

- A ILEGFRA
- B ALEGFRI
- C ALEGFRA
- D ILEGFRB

Answer: A

Explanation:

TRIL	OGY
OGY	LTRI

FRA	GILE
ILE	GFRA

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Question 2

Select the set in which the numbers are related in the same way as are the numbers of the following set.
(24, 48, 36)

- A (26, 58, 46)
- B (15, 49, 37)
- C (45, 49, 77)
- D (25, 49, 37)

Answer: D

Explanation:

$$(24, 48, 36) = (24 + 48)/2 = 36$$

So, $(25 + 49)/2 = 37$ so, option D is the answer.

Question 3

Arrange the following words in a logical sequence as they would appear in the English dictionary.

1. Examine
2. Excited
3. Exclaim
4. Example
5. Execute

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

Answer: D

Explanation:

Logical sequence according to english dictionary is 1, 4, 2, 3, 5

Question 4

Which number will replace the question mark (?) in the following series?

1, 2, 6, 24, 120, ?

A 240

B 570

C 720

D 360

Answer: C

Explanation:

1,	2,	6,	24,	120,	720
	$\times 2$	$\times 3$	$\times 4$	$\times 5$	$\times 6$

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Question 5

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.

6 : 40

A 15 : 45

B 9 : 72

C 5 : 25

D 7 : 53

Answer: D

Explanation:

6:40 pattern is $6 \times 6 + 4 = 40$

7:43 in the same way = $7 \times 7 + 4 = 53$

Question 6

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

A EGK

B IKM

C BDH

D DFJ

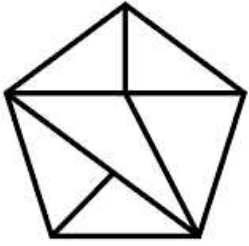
Answer: B

Explanation:

Alphabetical difference IKM is same while other option have different. So IKM is odd.

Question 7

How many triangles are present in the following figure ?



- A 7
- B 9
- C 8
- D 11

Answer: B

Explanation:

Total triangles = $(2+1) + (2+1) + (2+1) = 9$

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Question 8

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



- A
- B
- C
- D

Answer: C

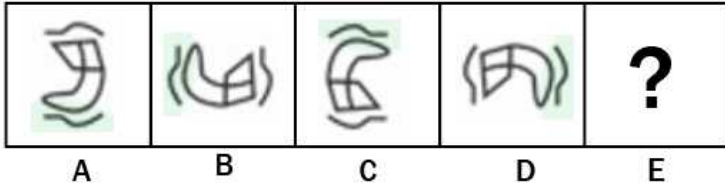
Explanation:

Mirror is placed right to the figure the left and right will be interchanged and top and bottom will be remains same.

So, option C will be the answer.

Question 9

Select the Answer Fig. that will come next in the following Problem Fig. series.



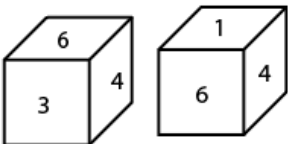
Answer: C

Explanation:

Given figure is moving 90 degree in clockwise direction from A. So, figure of option C will come next.

Question 10

Two positions of a dice are shown below. When the number 3 is at the top, which number would appear at the bottom ?



A 2

B 4

C 1

D 5

Answer: C

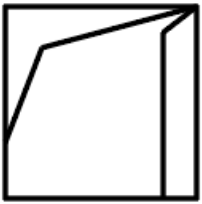
Explanation:

By tracing the different position of dice we see that adjacent of 4 is 3 and 6 in fig first and adjacent of 4 is 1 and 6 in fig second. So, adjacent of 4 will be 1 and 3 it means if on to 3 is there then on bottom 1 will be on dice.

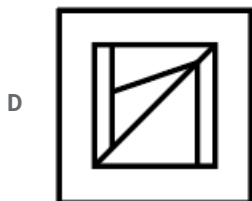
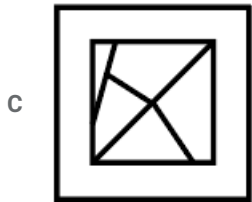
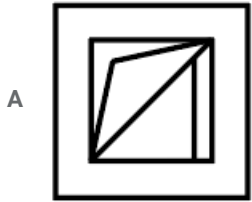
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Question 11

Select the option in which the given figure (X) is embedded.



X



Answer: A

Explanation:

By seeing the figure and tracing the option we can see in option A figure is embedded.

Question 12

'Man' is related to 'Crowd' in the same way as 'Student' is related to ____.

- A Class
- B Cinema
- C Gang
- D Family

Answer: A

Explanation:

Crowd is the place where many men are there, in the same way class is the place where many students are there.

Question 13

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 145
- B 325
- C 425
- D 235

Answer: C

Explanation:

Sum of all the digits except option C is 10. Sum of digits of option C = $4+2+5 = 11$.

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Question 14

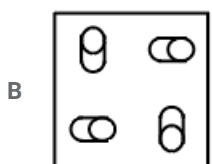
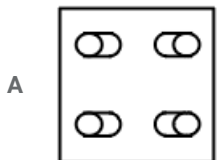
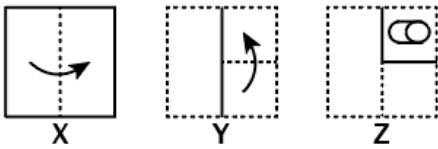
If it was a Monday on 1 January 2018, what was the day of the week on 31 December 2018 ?

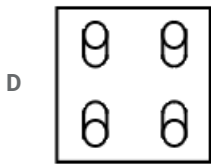
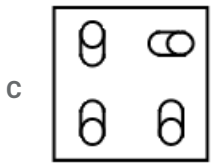
- A Monday
- B Friday
- C Sunday
- D Tuesday

Answer: A

Question 15

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





Answer: A

Explanation:

We will start with the last figure and move on to the first one, while tracing out all the spots on each step. We will see that out of the four options, the only one that represents the answer figure is the one in option (A).

Question 16

Manju introduced Sushma to her friend, "Her (Sushma's) father's only son's wife is my mother-in-law." How is Manju's husband related to Sushma?

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

Answer: C

Explanation:

Sushma's sister in law is Manju's mother in law, so Sushma will be aunty of Manju and Manju is nephew of Sushma.

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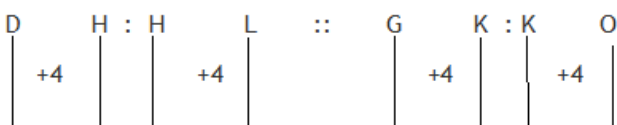
Question 17

Select the option that is related to the third letter-pair in the same way as the second letterpair is related to the first letter-pair.
DH : HL :: GK : ?

- A KO
- B LO
- C LM
- D KL

Answer: A

Explanation:



Question 18

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 hens are eggs.

All birds are eggs.

Some eggs are lions.

Conclusions:

I. Some lions are eggs.

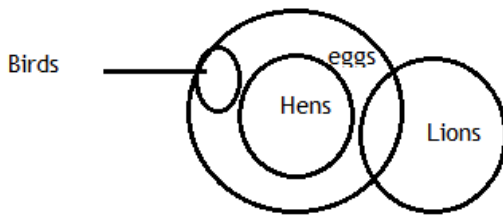
II. Some eggs are hens.

III. Some eggs are birds.

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

Answer: A

Explanation:



Question 19

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(16, 25, 82)

- A (11, 121, 110)
- B (25, 36, 51)
- C (36, 49, 170)
- D (25, 49, 82) pattern is

Answer: C

Explanation:

$$(16, 25, 82) = (16+25) \times 2 = 82$$

$$(36, 49, 170) = (36+49) \times 2 = 170$$

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Question 20

If BUS is coded as 126 and FUEL is coded as 176, then how will SHRUB be coded as ?

- A 340
- B 68
- C 204
- D 272

Answer: A

Explanation:

$$B=2, U=21, S=19, (2+21+19) \times 3 = 126$$

$$F=6, U=21, E=5, L=12, (6+21+5+12) \times 4 = 176$$

Pattern is sum is multiplied with number of alphabets.

$$S=19, H=8, R=18, U=21, B=2, (19+8+18+21+2) \times 5 = 340$$

Question 21

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

- A Lucknow
- B Punjab
- C Mumbai
- D Patna

Answer: B

Explanation:

Punjab is a state.

Question 22

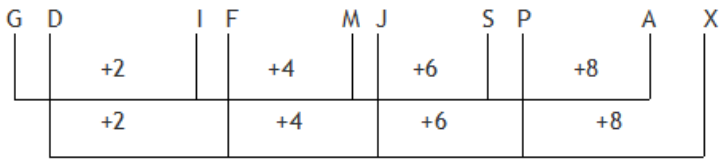
Which letter-pair will replace the question mark (?) in the following series?

GD, IF, ?, SP, AX

- A MJ
- B NM
- C JK
- D MN

Answer: A

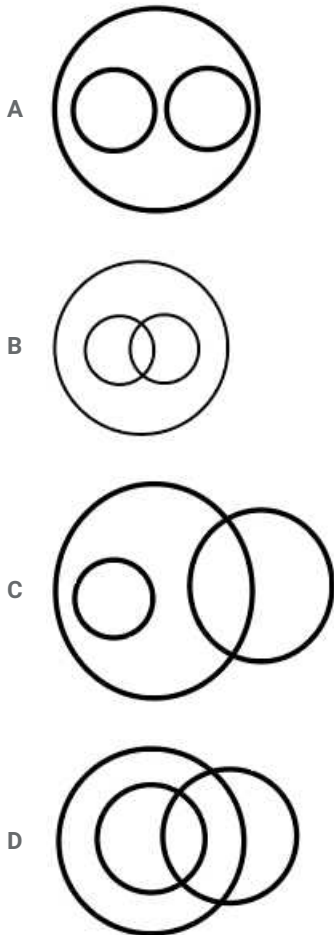
Explanation:



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Question 23

Select the Venn diagram that best illustrates the relationship between the following classes.
Pi, Theta, Symbols



Answer: A

Explanation:

All pi and theta are symbols.

Question 24

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

$$10 + 8 - 200 \times 15 \div 5 = 407$$

A + and -, 15 and 10

B \times and \div , 8 and 5

C \times and -, 5 and 15

D + and \div , 200 and 10

Answer: A

Explanation:

$$10 + 8 - 200 \times 15 \div 5 = 407$$

after interchanging *+* and *-*, *15* and *10*

$$15 - 8 + 200 \times 10 \div 5 = 407$$

$$7 + 400 = 407$$

$$407 = 407$$

Question 25

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.

Paper : Pen

- A Blackboard : Chalk
- B Chalk : Duster
- C Curd : Milk
- D Wood : Table

Answer: A

Explanation:

By pen we can write on paper in the same way by chalk we can write on blackboard.

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General knowledge

Instructions

For the following questions answer them individually

Question 26

Who has been given the 'Yashwantrao Chavan National Award 2018' for his contribution to economic development?

- A Bimal Jalan
- B Amartya Sen
- C Raghuram Rajan
- D Arvind Subramanian

Answer: C

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Question 27

The first complete census in India was held in the year _____.

- A 1881
- B 1873
- C 1891
- D 1885

Answer: A

Question 28

Which of the following Parliamentary Committees does NOT draw any member from Rajya Sabha?

- A Committee on Estimates
- B Committee on Petitions
- C Committee on Public Undertakings
- D Committee on Public Accounts

Answer: A

Question 29

Who of the following players was named Wisden's Leading T20 Cricketer of the Year for 2018?

- A Rashid Khan
- B Rohit Sharma
- C Virat Kohli
- D Sam Curran

Answer: C

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Question 30

_____ is Google's new app aimed at helping children in primary school learn to read in Hindi and English.

- A Padho
- B Khelo
- C Seekho
- D Bolo

Answer: D

Question 31

Which of the following is the SI unit of temperature ?

- A Kelvin
- B Réaumur scale
- C Candla
- D Ampere

Answer: A

Question 32

Ram Nath Kovind is the _____ President of India.

- A 13th
- B 16th
- C 14th
- D 15th

Answer: C

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Question 33

In 1917, Mahatma Gandhi organised a Satyagraha in the Kheda district of Gujarat in support of the:

- A cotton mill workers who were demanding better wages
- B tribals whose customary rights were being violated
- C women who were struggling against the oppressive patriarchal system
- D peasants who were affected by crop failure and a plague epidemic

Answer: D

Question 34

The rate of interest on which commercial banks borrow money from RBI to meet their short term credit needs is known as:

- A Sub-Prime Lending Rate
- B Statutory Lending Rate
- C Prime Lending Rate
- D Bank Rate

Answer: D

Question 35

The audible range of sound for an average adult human being is _____.

- A 2 Hz - 20000 Hz
- B 2 Hz - 2000 Hz
- C 20 Hz - 2000 Hz
- D 20 Hz - 20000 Hz

Answer: D

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Question 36

In the context of Man Booker International Prize, 2019, which of the following statements is NOT correct?

- A The prize was awarded to her for the novel titled Celestial Bodies.
- B Alharthi hails from Oman.
- C Alharthi is the second Arabic author to win this prize.
- D The prize was begged by Jokha Alharthi.

Answer: C

Question 37

A nuclear-powered Arctic icebreaker recently launched by Russia has been named:

- A Elbrus
- B Volga
- C Ural
- D Lenin

Answer: C

Question 38

The Khurja pottery is associated to which state of India?

- A Andhra Pradesh
- B Uttar Pradesh
- C Madhya Pradesh
- D Himachal Pradesh

Answer: B

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Question 39

_____ won the women's singles title at Italian Open 2019.

- A Naomi Osaka
- B Simona Halep
- C Johanna Konta
- D Karolina Pliskova

Answer: D

Question 40

_____ Bank has become the first bank in the country to introduce Iris Scan Authentication feature for Aadhaar-based transactions through its micro ATM tablets.

- A Axis
- B Canara
- C Bandhan
- D Yes

Answer: A

Question 41

_____ was named ICC Emerging Player of the Year 2018.

- A Rohit Sharma
- B Calum McLeod
- C Aaron Finch
- D Rishabh Pant

Answer: D

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Question 42

From which of the following Harappan era site has the evidence of ploughed field been found ?

- A Mohenjodaro
- B Chanhudaro
- C Kalibangan
- D Harappa

Answer: C

Question 43

The Hill station of Matheran is located in _____.

- A Maharashtra
- B Manipur
- C Madhya Pradesh
- D Kerala

Answer: A

Question 44

The waves used in radar systems are _____ waves.

- A ultraviolet
- B infrared

C micro

D radio

Answer: D

Explanation:

Radar is a detection system that uses **radio waves** to determine the range, angle, or velocity of objects. It can be used to detect aircraft, ships, spacecraft, guided missiles, motor vehicles, weather formations, and terrain.

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Question 45

Ghumot is indigenous traditional percussion instrument of _____.

A Andhra Pradesh

B Goa

C Punjab

D Assam

Answer: B

Question 46

In the field of information and communication technology, what is the full form of FDD ?

A Folder Disk Drive

B Floppy Disk Drive

C Folder Data Drive

D Floppy Data Drive

Answer: B

Question 47

In the context of plate tectonics, which of the following statements is **NOT** correct?

A Eurasian plate is largely an oceanic plate.

B The major tectonic plates are surrounded by young fold mountain ridges, trenches, and/or faults.

C Tectonic plates move horizontally over the asthenosphere.

D Earth's surface is divided into seven major plates.

Answer: A

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Question 48

Which of the following statements about the Himalayan Mountains is **NOT** correct ?

A The range lying to the immediate south of the Himadri is called the Shiwaliks.

- B The Shiwalik ranges are composed of unconsolidated sediments brought down by rivers.
- C The core of the Himadri is made of granite.
- D Its northernmost part is called the Himadri.

Answer: A

Question 49

Which of the following states has been given GI tag for Kasuti embroidery ?

- A Telangana
- B Karnataka
- C Rajasthan
- D Bihar

Answer: B

Question 50

In the context of digital computer, which of the following pairs of digits is referred to as binary code?

- A 3 and 4
- B 0 and 1
- C 2 and 3
- D 1 and 2

Answer: B

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Quant

Instructions

For the following questions answer them individually

Question 51

The simplified value of $[1\frac{1}{5} \text{ of } \{7 - (1\frac{4}{15} - \frac{13}{15}) \times \frac{5}{7}\}] \div (7 \div 5)$ is:

- A $\frac{2}{15}$
- B $\frac{1}{5}$
- C 1
- D $\frac{4}{15}$

Answer: C

Explanation:

$$[1\frac{1}{5} \text{ of } \{7 - (1\frac{4}{15} - \frac{13}{15}) \times \frac{5}{7}\}] \div (7 \div 5)$$

$$[1\frac{1}{5} \text{ of } \{7 - (1\frac{4}{15} - \frac{13}{15}) \times \frac{5}{7}\}] \div (\frac{6}{35})$$

$$\left[1\frac{1}{5} \text{ of } \left\{\frac{3}{7} - \left(\frac{19}{15} - \frac{13}{15}\right) \times \frac{5}{7}\right\}\right] \div \left(\frac{6}{35}\right)$$

$$\left[1\frac{1}{5} \text{ of } \left\{\frac{3}{7} - \left(\frac{6}{15}\right) \times \frac{5}{7}\right\}\right] \div \left(\frac{6}{35}\right)$$

$$\left[1\frac{1}{5} \text{ of } \left\{\frac{3}{7} - \frac{2}{7}\right\}\right] \div \left(\frac{6}{35}\right)$$

$$\frac{6}{5} \times \frac{1}{7} \times \frac{35}{6} = 1$$

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Question 52

The point A of a triangle ABC moves parallel to the straight line BC. Which one among the following also moves along a straightline parallel to BC?

(a) The circumcentre (b) the centroid (c) the incentre (d) the orthocentre.

A (d)

B (b)

C (c)

D (a)

Answer: B

Explanation:

Centroid is the point where three medians meet. So when point A of a triangle ABC moves parallel to the straight line BC. Centroid will also also moves along a straightline parallel to BC.

Question 53

If $\frac{\cos \alpha}{\sin \alpha + \cos \beta} + \frac{\cos \beta}{\sin \beta - \cos \alpha} = \frac{x}{\sin \alpha - \cos \beta} + \frac{\cos \beta}{\sin \beta + \cos \alpha}$ then 'x' is equal to:

A $\cos \beta$

B $\cos \alpha$

C $\sin \beta$

D $\sin \alpha$

Answer: B

Question 54

Three successive discounts on the marked price of an article turns out to be equivalent to a single discount of 19%. If the rates of the first and second discount are 10% and 4% respectively, what is the rate of the third discount?

A 7.50%

B 5.25%

C 6.25%

D 6.00%

Answer: C

Explanation:

Let the marked price be Rs 100 and third discount be x %

According to the question,

$$100 \times \frac{90}{100} \times \frac{96}{100} \times \frac{100-x}{100} = \frac{81}{100}$$

$$100 - x = 93.75$$

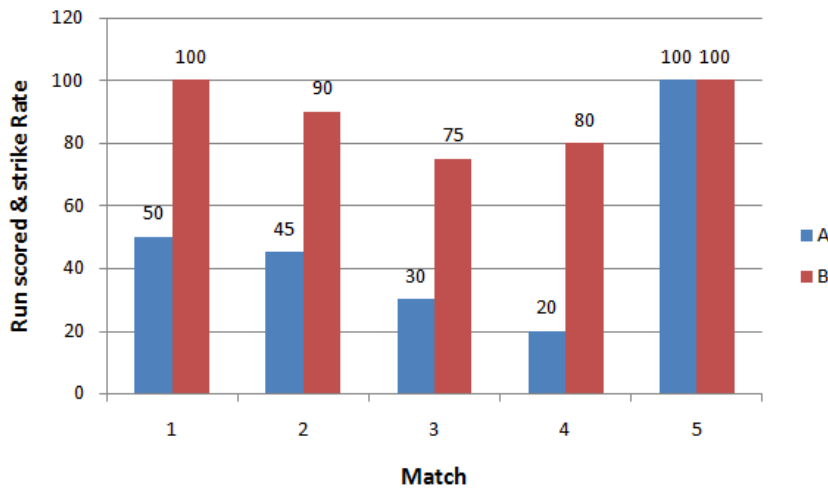
$$x = 100 - 93.75 = 6.25$$

Hence, third discount = 6.25%

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Question 55

The given Bar Graph presents the runs scored (A) and strike rate (B) of a batsman in five matches. Strike Rate is the number of runs scored per 100 balls faced. The strike rate (B) is taken on record only when the batsman scores at least 30 runs in a match.



What is the average strike rate of the batsman?

- A 89
- B 91.25
- C 90.75
- D 95.5

Answer: B

Explanation:

$$\text{Required average} = \frac{100+90+75+100}{4} = 91.25$$

(Match 4 is not considered here as the runs scored are only 20.)

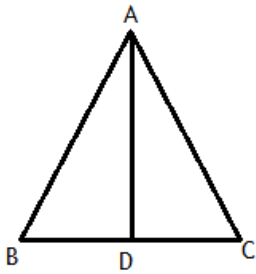
Question 56

In $\triangle ABC$, AD is perpendicular to BC from A. if $\angle BAC = 90^\circ$, then $AB^2 : AC^2$ is equal to:

- A $BD^2 : CD^2$
- B $CD : BD$
- C $CD^2 : BD^2$
- D $BD : CD$

Answer: D

Explanation:



AD is perpendicular to BC and Angle BAC = 90

Then $AD^2 = BD \times CD$

And,

$$AB^2 = BD^2 + AD^2 = BD^2 + BD \times CD = BD(BD + CD) \text{-----I}$$

$$AC^2 = CD^2 + AD^2 = CD^2 + BD \times CD = CD(CD + BD) \text{-----II}$$

Dividing eqn I by II,

$$\frac{AB^2}{AC^2} = \frac{BD}{CD}$$

Question 57

The total cost price of two articles is ₹2,000. One of them is sold at a profit of 12% and the other at a loss of 12%. The overall gain in the transaction is 1.2%. The cost price of the article for which there was a profit was:

- A ₹1,050
- B ₹1,100
- C ₹1,120
- D ₹1,080

Answer: B

Explanation:

Let the C.P of one article be x

C.P of second article (2000-x)

S.P of first article = $\frac{112x}{100}$

S.P of second article = $\frac{88(2000-x)}{100}$

Overall profit = $\frac{1.2}{100} \times 2000 = 24$

According to the question,

$$\frac{112x}{100} + \frac{88(2000-x)}{100} = 2024$$

$$1.12x + 1760 - 0.88x = 2024$$

$$0.24x = 264$$

$$x = 1100$$

Required profit = Rs 1100.

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Question 58

For θ being an acute angle, $4(2 \sin^2 \theta + 7 \cos^2 \theta) = 13$. What is the value of θ ?

- A 60°

- B 45°
 C 30°
 D 0°

Answer: A

Explanation:

$$4(2 \sin^2 \theta + 7 \cos^2 \theta) = 13$$

$$4(2 \sin^2 \theta + 7(1 - \sin^2 \theta)) = 13$$

$$4(7 - 5 \sin^2 \theta) = 13$$

$$28 - 20 \sin^2 \theta = 13$$

$$20 \sin^2 \theta = 15$$

$$\sin^2 \theta = \frac{15}{20}$$

$$\sin^2 \theta = \frac{3}{4}$$

$$\sin \theta = \frac{\sqrt{3}}{2}$$

$$\theta = 60^\circ$$

Question 59

A boy standing by the side of a railway track finds that an Up train crosses him in 8 seconds and a Down train of twice the length of that of the Up train crosses him in 20 seconds. How long (in seconds) will the two trains take to cross each other?

- A $13\frac{1}{3}$
 B 15
 C 20
 D $12\frac{1}{3}$

Answer: A

Explanation:

Let the length of up train be x metres therefore, length of down train be $2x$ metres

$$\text{Speed of up train} = \frac{x}{8}$$

$$\text{Speed of down train} = \frac{2x}{20}$$

$$\text{Relative speed} = \frac{x}{8} + \frac{2x}{20} = \frac{9x}{40}$$

$$\text{Time taken to cross each other} = \frac{\text{Sum of the length of the both trains}}{\text{Relative speed}}$$

$$= 3x \times \frac{40}{9x} = \frac{40}{3}$$

Question 60

a, b, c are three positive numbers, such that, $(a + b + c) = 20, a^2 + b^2 + c^2 = 152$. The value of $(ab + bc + ca)$ is equal to:

- A 124
 B 110
 C 112
 D 102

Answer: A

Explanation:

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ac)$$

$$20^2 = a^2 + b^2 + c^2 + 2(ab + bc + ac)$$

$$400 = 152 + 2(ab + bc + ac)$$

$$(ab + bc + ac) = \frac{248}{2} = 124$$

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Question 61

If 16 men working 12 hours a day can complete a work in 27 days, then working for how many hours a day can 18 men complete the work in 24 days ?

- A 9
- B 18
- C 16
- D 12

Answer: D

Explanation:

$$M1 \times D1 \times H1 = M2 \times D2 \times H2$$

$$16 \times 27 \times 12 = 18 \times 24 \times H2$$

$$H2 = 12$$

Question 62

If $\sin \theta + \operatorname{cosec} \theta = 2$, then what is the value of $\sin^{153} \theta + \operatorname{cosec}^{253} \theta$?

- A $\frac{1}{153 \times 253}$
- B $\frac{253}{153}$
- C 2
- D $\frac{153}{253}$

Answer: C

Explanation:

$$\sin \theta + \operatorname{cosec} \theta = 2$$

$$\sin \theta + \frac{1}{\sin \theta} = 2$$

$$\text{Let } \sin \theta = x$$

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

If sum of a number and its reciprocal is 2 then number will be 1

$$\text{So, } \sin \theta = 1$$

$$\sin^{153} \theta + \operatorname{cosec}^{253} \theta = 1^{153} + 1^{253} = 2$$

Question 63

If $(x + y)^{\frac{1}{3}} + (y + z)^{\frac{1}{3}} = -(z + x)^{\frac{1}{3}}$, then $(x^3 + y^3 + z^3)$ can be expressed as:

- A $\frac{1}{8}xyz$
- B $(x + y)(y + z)(z + x)$
- C $\frac{3}{8}(x + y)(y + z)(z + x)$
- D $3xyz$

Answer: C

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Question 64

The average of the first 1234 numbers is equal to 1234. Fill in the blank.

- A odd
- B even
- C prime
- D natural

Answer: A

Explanation:

The average of first 'n' odd numbers is always 'n'. So, average of first 1234 odd numbers is 1234.

Question 65

A borrows a sum of ₹1,000 from his friend B on 31st December 2015 on the condition that he will return the same after one year with simple interest at 12% per annum. However, A gets into a position of returning the money on 1st May 2016. How much amount the has to return to B ?

- A ₹1,331.5
- B ₹1,045
- C ₹1,120
- D ₹1,040

Answer: D

Explanation:

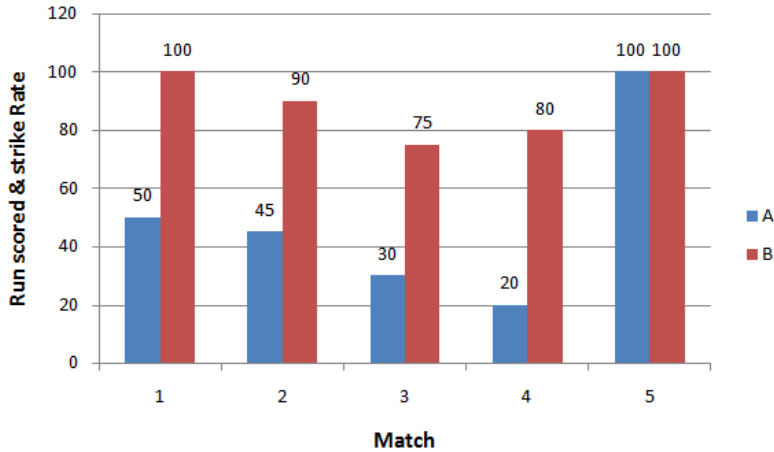
P= 1000, T= 4 months or 4/12 years = 1/3 years (31st dec to 1st may 2016), R = 12%

$$S.I = \frac{P \times T \times R}{100}$$
$$S.I = \frac{1000 \times \frac{1}{3} \times 12}{100} = 40$$

Amount he have to return = 1000 + 40 = Rs 1040

Question 66

The given Bar Graph presents the runs scored (A) and strike rate (B) of a batsman in five matches. Strike Rate is the number of runs scored per 100 balls faced. The strike rate (B) is taken on record only when the batsman scores at least 30 runs in a match.



How many balls did the batsman face in the third match?

- A 60
- B 30
- C 40
- D 50

Answer: C

Explanation:

$$\text{Number of balls faced in third match} = \frac{30}{75} \times 100 = 40$$

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Question 67

Which among the following numbers is exactly divisible by 7, 11 and 13 ?

- A 14982
- B 15004
- C 14993
- D 15015

Answer: D

Explanation:

L.C.M of 7, 11 and 13 = 1001

15015 is divisible by 1001 so, it is also divisible by 7, 11 and 13

Question 68

Twelve sticks, each of length one unit, are used to form an equilateral triangle. The area of the triangle is:

- A $3\sqrt{3}$ sq units
- B $2\sqrt{3}$ sq units

C $4\sqrt{3}$ sq units

D $8\sqrt{3}$ sq units

Answer: C

Explanation:

12 sticks of 1 unit each = 12 units

Side of equilateral triangle made by 12 units = 4 cm

$$\text{Area of equilateral triangle} = \frac{\sqrt{3}}{4} \times a^2 = \frac{\sqrt{3}}{4} \times 4^2 = 4\sqrt{3}$$

Question 69

₹8,000 is distributed among A, B and C such that they receive notes of ₹500, ₹200 and ₹100 respectively. The amounts received by them are in the ratio 15 : 2 : 3. What was the ratio of the number of notes of ₹500, ₹200 and ₹100?

A 3 : 1 : 3

B 3 : 3 : 1

C 4 : 1 : 2

D 3 : 2 : 2

Answer: A

Explanation:

Let A, B and C receive 15x, 2x and 3x respectively

According to the question,

$$15x + 2x + 3x = 8000$$

$$20x = 8000$$

$$x = 400$$

Amount received by A, B and C = Rs 6000, Rs 800 and Rs 1200 respectively

$$\text{Number of notes received by A} = \frac{6000}{500} = 12$$

$$\text{Number of notes received by B} = \frac{800}{200} = 4$$

$$\text{Number of notes received by C} = \frac{1200}{100} = 12$$

$$\text{Required ratio} = 12 : 4 : 12 = 3 : 1 : 3$$

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Question 70

A regular hexagon is inscribed in a circle. What is the ratio of the area of the circle to that of its portion not covered by the hexagon?

A $\frac{2\pi}{2\pi - 3\sqrt{3}}$

B $\frac{\pi}{\pi - 3\sqrt{3}}$

C $\frac{2\pi}{\sqrt{3}}$

D $\frac{\pi}{\sqrt{3}}$

Answer: A

Question 71

If $a + \frac{1}{a} = 2$, what is the value of $(a^4 - \frac{1}{a^4})$?

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

Answer: A

Explanation:

$$a + \frac{1}{a} = 2$$

If the sum of a number and its reciprocal = 2 then the number will be 1

So, $a = 1$

$$(a^4 - \frac{1}{a^4})$$

$$(1^4 - \frac{1}{1^4}) = (1 - 1) = 0$$

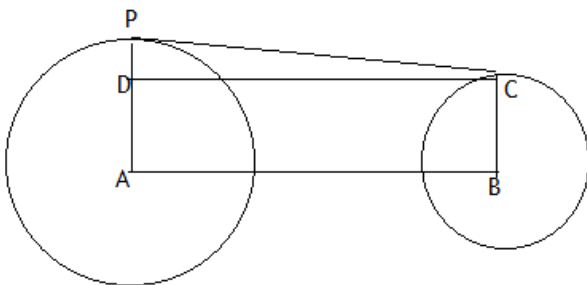
Question 72

Two circles of diameters 4.8 cm and 8 cm are such that the distance between their centres is 6.5 cm. What is the length of a common tangent to the circles that does not intersect the line joining the centres?

- A 6.3 cm
- B 6.2 cm
- C 6.1 cm
- D 6.0 cm

Answer: A

Explanation:



Given that $AB = 6.5$ cm, $CD = 6.5$ cm, $BC = 2.4$, $AP = 4$ cm and PC is common tangent

$$PD = PA - AD = 4 - 2.4 = 1.6 \text{ cm}$$

By Pythagoras theorem, In triangle PDC angle $P = 90$ degree

$$PC^2 = CD^2 - PD^2$$

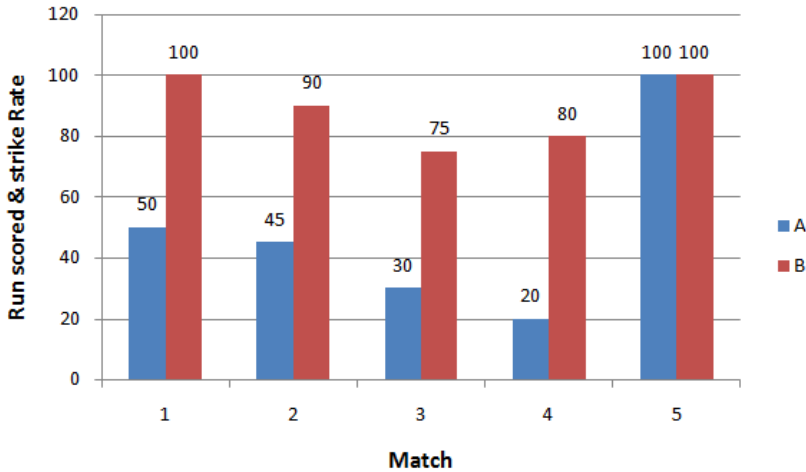
$$PC^2 = 6.5^2 - 1.6^2 = 39.69$$

$$PC = 6.3 \text{ cm}$$

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Question 73

The given Bar Graph presents the runs scored (A) and strike rate (B) of a batsman in five matches. Strike Rate is the number of runs scored per 100 balls faced. The strike rate (B) is taken on record only when the batsman scores at least 30 runs in a match.



How many runs the batsman should have scored in the fifth match in as many balls he had faced in that match so that the average strike rate of the second and the fifth match becomes 120 ?

- A 150
- B 240
- C 160
- D 120

Answer: A

Explanation:

Required average strike rate of the second and the fifth match = 120

Total average strike rate of the second and the fifth match = $120 \times 2 = 240$

So, in fifth match we need average strike rate = $240 - 90 = 150$

Hence, batsman have to score 150 runs in 100 balls to make average strike rate in second and fifth match 120.

Question 74

Price of tea has increased by 20% but I have decided to increase my expenditure towards tea by 15% only. By What percentage should I reduce my consumption (correct to one place of decimal) in order to be able to maintain the same level of expenses towards tea?

- A 5.4
- B 4.2
- C 5.6
- D 4.8

Answer: B

Explanation:

Let the price of 100 kg tea be Rs 100 and I have also Rs 100 for expenditure on tea

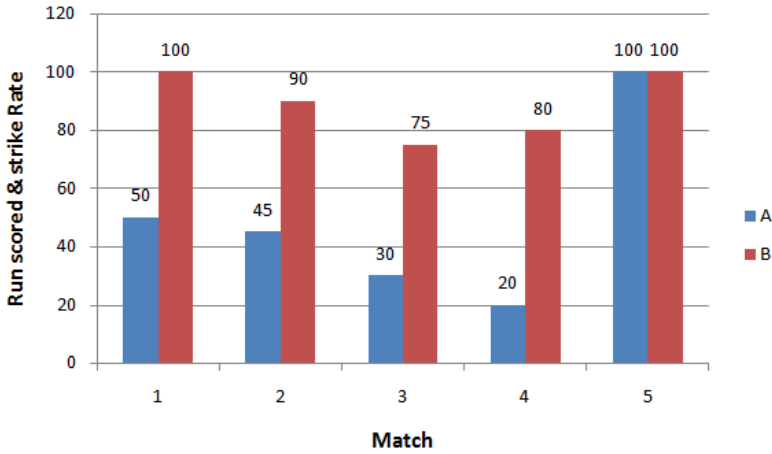
After increment of 20% price of tea = Rs 120

Now I have also increased my expenditure towards tea by 15% = Rs 115

Now reduction in consumption for maintaining the same level of expenditure towards tea = $\frac{5 \times 100}{120} = 4.20 \text{ approx}$

Question 75

The given Bar Graph presents the runs scored (A) and strike rate (B) of a batsman in five matches. Strike Rate is the number of runs scored per 100 balls faced. The strike rate (B) is taken on record only when the batsman scores at least 30 runs in a match.



What is the average run scored by the batsman in the five matches ?

- A 50
- B 49
- C 45
- D 56.25

Answer: B

Explanation:

$$\text{Average of runs scored in five matches} = \frac{(50+45+30+20+100)}{5} = 49$$

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English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate word to fill in the blank.

Any account of the reign of King Harsha would remain _____ without a reference to Hiuen Tsang.

- A incomplete
- B famous
- C eminent
- D unknown

Answer: A

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Question 77

Select the most appropriate synonym of the given word.

IDENTICAL

- A similar
- B legible
- C detailed
- D perfect

Answer: A

Question 78

Select the most appropriate word for the given group of words
place for collection of dried plant specimens

- A green house
- B nursery
- C warehouse
- D herbarium

Answer: D

Question 79

Select the correct indirect form of the given sentence.

Hemant said to the hotel receptionist, "Please tell Bharat I will come to see him tomorrow at 10 am."

- A Hemant said to the hotel receptionist please to tell Bharat he will come to see me tomorrow at 10 am.
- B Hemant requested to the hotel receptionist please inform Bharat I will come to see him tomorrow at 10 am.
- C Hemant said to the hotel receptionist to please tell Bharat that I will come to see him tomorrow at 10 am.
- D Hemant requested the hotel receptionist to inform Bharat that he would come to see him the next day at 10 am.

Answer: D

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Question 80

Select the wrongly spelt word.

- A whimsical
- B contiguous
- C spectaculer
- D adjacent

Answer: C

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:

It's turning out to be a tough summer for the State. With an alarming dip (1) _____ groundwater levels across (2) _____ state, experts fear residents (3) _____ soon have to battle an (4) _____ water crisis, along (5) _____ extremely high temperatures.

Question 81

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

- A from
- B in
- C on
- D with

Answer: B

Question 82

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

- A nearby
- B the
- C every
- D all

Answer: B

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Question 83

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

- A might
- B should
- C shall
- D can

Answer: A

Question 84

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

- A unlikely
- B average
- C unknown
- D acute

Answer: D

Question 85

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

- A with
- B from
- C to
- D by

Answer: A

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Instructions

For the following questions answer them individually

Question 86

Select the most appropriate word to fill in the blank.

Necessary support to _____ the process of sale is being extended by the banks in the consortium.

- A felicitate
- B complicate
- C confuse
- D facilitate

Answer: D

Question 87

Select the most appropriate synonym of the given word.

OSTENTATIOUS

- A distinct
- B complete
- C flashy
- D trusted

Answer: C

Question 88

Select the most appropriate meaning of the given idiom
bolt from the blue

- A winning after losing a game many times
- B something sudden that happens unexpectedly
- C someone who runs fast and wins a race
- D locking the doors to keep the rain out

Answer: B



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Question 89

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

Inspite Smita had taken part in many television serials earlier, this was the first time she was going to host a live show.

- A in many television serials earlier
- B she was going to host
- C this was the first time
- D Inspite Smita had taken part

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.

A spokesperson of the company explained that the media had misrepresented the facts about the accident in their building.

- A misrepresent the facts on the accident
- B misrepresenting the facts about the accident
- C No improvement
- D misrepresents the facts for an accident

Answer: C

Question 91

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

- A. Gone are the days when you stayed with one firm for your entire career and made lifelong friends in the office.
- B. This phenomenon was noted in a recent research report which found that the median tenure for employees below the age of 30 is just two years.
- C. The research report stated that young people today are tempted to switch jobs quickly.
- D. As job longevity becomes a phenomenon of the past, there is a change in attitude in the modern generation towards employment.

- A DBCA
- B BADC
- C CDAB
- D DCBA

Answer: A

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Question 92

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.

There was a long queue at the post office and by the time I have reached the counter I was told the printer was not working.

- A I reached the counter
- B No improvement
- C I reach the counter
- D I am reaching the counter

Answer: A

Question 93

Select the most appropriate word for the given group of words
a group of stars found close together

- A concoction
- B conflagration
- C confederation
- D constellation

Answer: D

Instructions

Select the most appropriate antonym of the given word.

Question 94

COMPLACENT

- A humble
- B satisfied
- C confident
- D trusted

Answer: A

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Question 95

SALIENT

- A negligible
- B prominent
- C striking
- D clear

Answer: A

Explanation:

Salient means prominent or important, so the antonym is negligible.

Instructions

For the following questions answer them individually

Question 96

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

- A. I should have charged double the amount, but it didn't occur to me then.
- B. Now, after all the expenses and the gardener's salary, I made a profit of only five hundred rupees.
- C. The jasmine plants flowered twice and I sold 250 grams of buds just for ten rupees.
- D. Had I charged at least twenty rupees I would have made a good profit.

A ADCB

B BCDA

C CADB

D BDAC

Answer: C

Question 97

Select the correct passive form of the given sentence.

You have made a mistake in writing your answer.

- A A mistake has been made by you in writing your answer.
- B A mistake have been made by you in writing your answer.
- C A mistake is being made by you in writing your answer.
- D A mistake had been made by you in writing your answer.

Answer: A

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Question 98

Select the correctly spelt word.

- A queiten
- B questionnaire
- C quallification
- D quantefy

Answer: B

Question 99

Select the most appropriate meaning of the given idiom
left-handed compliment

- A praise that is given directly
- B insulting someone in front of others
- C insulting remark appearing as praise

D making fun of someone to tease them

Answer: C

Question 100

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

The lady listened carefully to my complaint but I doubt she will do anything about it.

A but I doubt she

B will do anything about it

C to my complaint

D The lady listened carefully

Answer: A

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