



SSC CHSL 11 July 2019 Shift-1

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Reasoning

Instructions

For the following questions answer them individually

Question 1

In a code language, GOURD is written as IQSTF. How will APHID be written as in that language?

- A CRJKF
- B CRFLF
- C CRFKF
- D CREKF

Answer: C

Explanation:

According to the English alphabetical series, all the letters in the word gourd follows the series, +2 +2 -2 +2 +2

i.e, G +2 = I; O +2 = Q; U -2 = S; R +2 = T and D +2 = F, so similarly the code for APHID is

A +2 = C; P +2 = R; H -2 = F; I +2 = K and D +2 = F, so the code is CRFKF

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Question 2

'ENGINEER' is related to 'BUILDING' in the same way as 'WRITER' is related to '_____'.

- A BOOK
- B PAPER
- C PEN
- D INK

Answer: A

Explanation:

Engineer designs building in the same way Writers write book

Question 3

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

- A QSUV
- B DFHJ
- C JLNP
- D CEGI

Answer: A

Explanation:

Alphabetical difference of all the option except option A is same. So option A is odd.

Question 4

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

- A Car
- B Jeep
- C Truck
- D Ship

Answer: D

Explanation:

Car, Jeep and Truck are running on road but ship sails on sea.

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Question 5

Arrange the following words in the sequence as they appear in English dictionary order.

1. Mercury
2. Earth
3. Jupiter
4. Venus
5. Mars

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

Answer: D

Explanation:

'Earth' comes first in the alphabetical order. 'Jupiter' comes second in the alphabetical order. 'Mars' comes third in the alphabetical order. 'Mercury' comes fourth in the alphabetical order and 'Venus' comes fifth in the alphabetical order.

Question 6

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

FJ, HL, ?, LP, NR

- A JM
- B JN
- C GM
- D IN

Answer: B

Explanation:

FJ, HL, ?, LP, NR

The pattern followed is :

$F + 2 = H$, $J + 2 = L$, $H + 2 = J$, $L + 2 = N$

Question 7

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

(16, 36, 64)

A (6, 36, 80)

B (10, 30, 58)

C (9, 25, 62)

D (12, 32, 50)

Answer: B

Explanation:

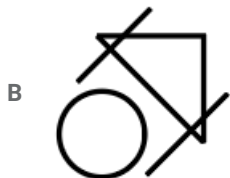
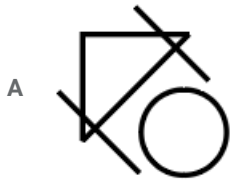
(16, 36, 64) pattern followed is $16 + 20 = 36$, $36 + 28 = 64$

So, (10, 30, 58) are following the same pattern.

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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.



Answer: C

Explanation:

As we know that when a mirror is placed on the right side of the figure, the left and right sides of the image will be interchanged, and the top and bottom parts will remain the same.

So, option C will be the answer.

Question 9

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.

All eggs are lions.

Conclusions:

I. All hens are lions.

II. Some lions are eggs.

III. All birds are lions.

A Only conclusions II and III follow.

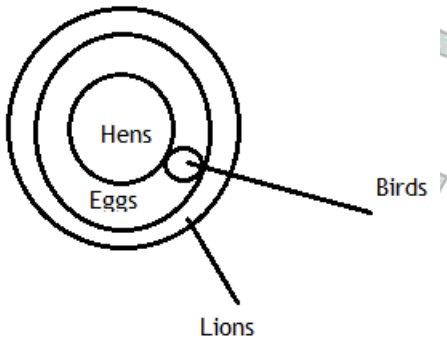
B Only conclusions I and II follow.

C Only conclusion I follows.

D All the conclusions follow.

Answer: D

Explanation:



I. All hens are lions follows because all hens are eggs and all eggs are lions.

II. Some lions are eggs follows because all lions are eggs.

III. All birds are lions follows because all birds are eggs and all eggs are lions.

Question 10

Anil and Abhay are brothers. Swati is the daughter of Samir and sister of Anil. How is Abhay's mother related to Samir?

A Sister

B Wife

C Sister-in-law

D Mother

Answer: B

Explanation:

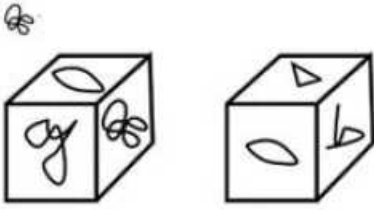
Anil and Abhay are brothers and Swati is the sister of Anil means Swati is the sister of Abhay also.

Swati is the daughter of Samir means Samir is the father of Anil and Abhay also.

So, Abhay's mother is wife of Abhay's father.

Question 11

Three different positions of the same dice are shown. Select the pattern that will be on the face opposite to the one having



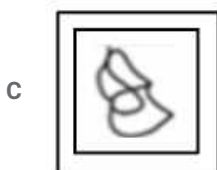
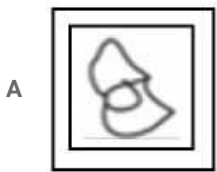
Answer: D

Explanation:

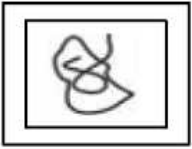
By seeing the two different positions of the dice we see that figure of option D will be on the face opposite to the given figure.

Question 12

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



D



Answer: C

Explanation:

The figure is embedded in option C.

Question 13

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.
29, 31

A 15, 17

B 23, 25

C 11, 13

D 20, 21

Answer: C

Explanation:

29 and 31 are two consecutive prime numbers in the same way 11 and 13 are two consecutive prime numbers.

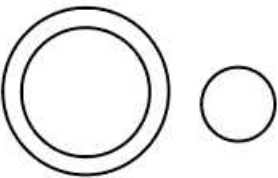
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Question 14

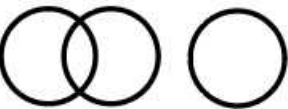
Select the Venn diagram that best illustrates the relationship between the following classes.

Rats, Frogs, Snakes

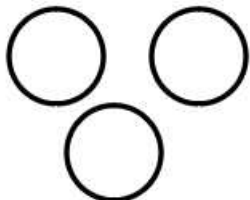
A



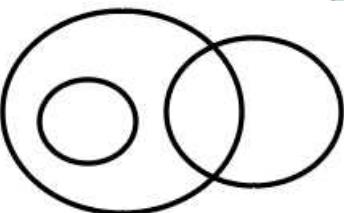
B



C



D



Answer: C

Explanation:

All are different from each other. Because rats are mammal, snakes are reptiles and frogs are amphibians.

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.

Cement : Building

- A Wire : Electricity
- B Wood : Furniture
- C Book : Author
- D Pen : Pencil

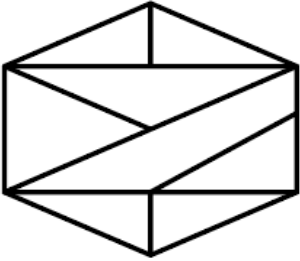
Answer: B

Explanation:

From cement building are made in the same way from wood furniture are made

Question 16

How many triangles are present in the following figure ?



- A 11
- B 9
- C 10
- D 13

Answer: A

Explanation:

In top of the figure 3 triangles is there 2 small and 1 big

In bottom of the figure 3 triangles is there 2 small and 1 big

So total = $3 + 3 = 6$

Now in middle of the figure 3 small and 2 big triangles is there = $3+2=5$

Total triangles = $6+5=11$

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Question 17

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

2, 4, 7, 12, 19, 30, ?

- A 47
- B 38

C 43

D 36

Answer: C

Explanation:

2, 4, 7, 12, 19, 30, ?

$2+2=4$

$4+3=7$

$7+5=12$

$12+7=19$

$19+11=30$

$30+13=43$

(2, 3, 5, 7, 11, 13) are prime numbers, so we are adding first number with first prime number and second with second prime number and so on.

Question 18

What was the day of the week on 15 August 2013?

A Thursday

B Monday

C Wednesday

D Tuesday

Answer: A

Explanation:

15th August 2013 = (2009 years + period between 1-1-2013 to 15-8-2013)

odd days in 2000 = 0

in remaining 13 years = (3 leap years + 9 normal years) = $(3 * 2 + 9 * 1) = 15 - 14 = 1$ odd days

Total number of days in period between 1-1-2013 to 15-8-2013 = 227 days = 32 weeks + 3 days = 3 odd days

Total number of odd days = $(1 + 3) = 4$ days

Hence, given day is thursday (0 odd day means sunday, 1 odd day means mon and so on)

Question 19

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

Problem Fig.



A

B

C

D

E

A





Answer: D

Explanation:

Figure is moving 90° clockwise.

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Question 20

Select the option that is related to the third letter-pair in the same way as the second letter-pair is related to the first letter-pair.
DJ : HT :: HM : ?

A PY

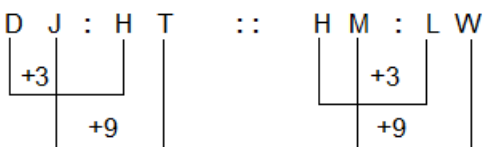
B JK

C LW

D LP

Answer: C

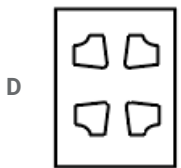
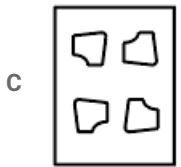
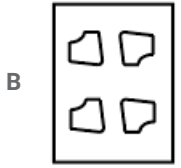
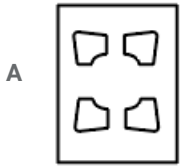
Explanation:



Question 21

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: D

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 (D).

Question 22

Select the set in which the numbers are related in the same way as are the numbers of the following set.
(49, 81, 121)

A (9, 4, 8)

B (16, 25, 49)

C (36, 64, 100)

D (16, 64, 100)

Answer: C

Explanation:

$$(49, 81, 121) = (7^2, 9^2, 11^2)$$

$$(36, 64, 100) = (6^2, 8^2, 10^2)$$

Hence, option C is correct.

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Question 23

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

$$5 + 8 - 30 \times 10 \div 2 = 240$$

A \times and \div

B + and \div

C + and -

D \times and -

Answer: D

Explanation:

$$5 + 8 - 30 \times 10 \div 2 = 240$$

$$5 + 8 \times 30 - 10 \div 2 = 240$$

$$5 + 240 - 5 = 240$$

$$240 = 240$$

Question 24

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 65

B 95

C 75

D 85

Answer: C

Explanation:

All the number divided by 5 gives prime number except 75, So 75 is different.

Question 25

If BARBER is coded as 116 and GLINT is coded as 73, then how will LIZARD be coded as?

A 92

B 93

C 91

D 90

Answer: A

Explanation:

Alphabetical positions from reverse,

$$B=25, A=26, R=9, B=25, E=22, R=9$$

$$\text{BARBER} = 25+26+9+25+22+9=116$$

$$G=20, L=15, I=18, N=13, T=7$$

$$\text{GLINT} = 20+15+18+13+7=73$$

Similarly,

$$L=15, I=18, Z=1, A=26, R=9, D=23$$

$$\text{LIZARD} = 15+18+1+26+9+23= 92.$$

General Knowledge

Instructions

For the following questions answer them individually

Question 26

Who among the following was included in Facebook 'Hall of Fame 2019' for detecting a WhatsApp Bug that violated privacy of a user?

- A Sonam Wangchuk
- B Jeje Lalpekula
- C Baichung Bhutia
- D Zonel Sougajam

Answer: D

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Question 27

Who was sworn in as the new chief minister of Andhra Pradesh on 30th May 2019?

- A Chandrababu Naidu
- B Raghuvveera Reddy
- C Pawan Kalyan
- D YS Jagan Mohan Reddy

Answer: D

Question 28

In the context of the banking system in India, what does IFSC stand for?

- A Indian Financial Structural Code
- B Indian Functional System Calculation
- C Indian Financial System Code
- D Indian Financial Social Code

Answer: C

Question 29

Which country has become the second country in the world to declare a climate and biodiversity emergency?

- A Bhutan
- B Ireland
- C Norway
- D Canada

Answer: B

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Question 30

Hypokalaemia is caused by the deficiency of _____.

- A Iodine
- B Potassium
- C Iron
- D Calcium

Answer: B

Question 31

Which one of the following lakes and their locations is INCORRECTLY matched?

- A Lonar-Maharashtra
- B Chilika-Andhra Pradesh
- C Loktak-Manipur
- D Roopkund-Uttarakhand

Answer: B

Question 32

In the context of the Internet, what is the full form of MAN?

- A Master Area Network
- B Makeshift Area Network
- C Massive Area Network
- D Metropolitan Area Network

Answer: D

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Question 33

Who among the following was re-elected as the Prime Minister of Israel April 2019?

- A Imad Khamis
- B Benjamin Netanyahu
- C Ranil Wickremesinghe
- D Sheikh Hasina

Answer: B

Question 34

In the cabinet of the 17th Lok Sabha, who has been appointed as the Finance Minister ?

- A Amit Shah
- B Nirmala Sitharaman
- C Smriti Irani
- D Rajnath Singh

Answer: B

Question 35

In May 2019, the kilogram was redefined for the first time in 130 years. It will now be redefined by a fundamental property of nature known as:

- A Planck's Constant
- B Electric Constant
- C Gravitational Constant
- D Magnetic Constant

Answer: A

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Question 36

Rovers Cup is associated with which of the following sports?

- A Swimming
- B Lawn Tennis
- C Snooker
- D Football

Answer: D

Question 37

Justice Rajinder Sachar Committee was set up to study _____.

- A the socio-economic status of Muslim community in India
- B the impact of globalisation on India
- C the standards maintained by government hospitals in India
- D the environmental issues of the western ghats in India

Answer: A

Question 38

Which one of the following is NOT a tributary of river Kaveri?

- A Vaigai
- B Kabini
- C Bhavani
- D Amravati

Answer: A

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Question 39

Which of the following classical dances and their places of origin is INCORRECTLY matched ?

- A Kuchipudi-Odisha
- B Bharatanatym-Tamilnadu
- C Mohiniattam-Kerala
- D Sattriya-Assam

Answer: A

Question 40

According to which Article of the Constitution of India shall the council of ministers be collectively responsible to the Lok Sabha?

- A Article 29
- B Article 75
- C Article 35
- D Article 302

Answer: B

Question 41

The Salal Project is constructed on the river:

- A Chenab
- B Bhima
- C Krishna
- D Manjra

Answer: A

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Question 42

Which of the following is a western flowing river?

- A Sabarmati
- B Gomti
- C Mahanadi
- D Krishna

Answer: A

Question 43

The head quarter of Federation Internationale de Football Association (FIFA) is located in _____.

- A Madrid
- B Amsterdam
- C Zurich
- D Paris

Answer: C

Question 44

Which of the following dances is in UNESCO's Intangible Heritage List?

- A Fugdi
- B Chhau
- C Jhoomar
- D Dalkhai

Answer: B

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Question 45

Who was the founder of Bahujan Samaj Party?

- A Munshi Ram
- B Devi Lal
- C Kanshi Ram
- D Lakshman Singh

Answer: C

Question 46

Which of the following texts gives a detailed account of the kings of Kashmir ?

- A Rajatarangini
- B Dipavamsa

- C Vinaya Pitaka
- D Katha Sarit Sagar

Answer: A

Explanation:

Rajatarangini (means "The River of Kings") is a metrical legendary and historical chronicle of the north-western Indian subcontinent, particularly the kings of Kashmir. It was written in Sanskrit by Kashmiri historian Kalhana in the 12th century CE.

Question 47

The Samkhya School of Philosophy was founded by _____.

- A Patanjali
- B Kapila
- C Kumarila Bhatta
- D Gautama

Answer: B

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Question 48

The headquarters of computer technology giant, Intel is in _____.

- A London
- B Tokyo
- C California
- D Frankfurt

Answer: C

Question 49

Which of the following is an example of terrestrial habitat?

- A Grassland
- B Lagoon
- C Pond
- D Swamp

Answer: A

Question 50

Pullela Gopichand is the chief national coach of the Indian _____ team as of June 2019.

- A Badminton
- B Basketball

- C Archery
- D Table tennis

Answer: A

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Quant

Instructions

For the following questions answer them individually

Question 51

The platform of a station 400 m long starts exactly where the last span of a bridge 1.2 km long ends. How long will a train 200 m long and travelling at the speed of 72 km/h take to cover the distance between the starting point of the span of the bridge and the far end of the platform ?

- A 1.6 min
- B 1.5 min
- C 1.8 min
- D 1.2 min

Answer: B

Explanation:

distance between the starting point of the span of the bridge and the far end of the platform = $400 + 1200 = 1600m$

$$72 \text{ km/h} = 72 \times \frac{5}{18} = 20 \text{ m/sec}$$

$$\text{Required time taken} = \frac{1600+200}{20} = 90 \text{ sec} = 1.5 \text{ min}$$

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Question 52

An article having marked price, ₹900, was sold for ₹648 after two successive discounts. The first discount was 20%. What was the percentage rate of the second discount?

- A 5
- B 15
- C 10
- D 12.5

Answer: C

Explanation:

Let the 2nd discount be $x\%$

According to the question,

$$900 \times \frac{80}{100} \times \frac{(100-x)}{100} = 648$$

$$1000 - 10x = 900$$

$$x = \frac{100}{10} = 10$$

Question 53

A purchased two articles for ₹200 and ₹300 respectively and sold at gains of 5% and 10% respectively. What was his overall gain percentage?

- A 6
- B 9
- C 5
- D 8

Answer: D

Explanation:

$$\text{Profit for 1st article} = \frac{5}{100} \times 200 = 10$$

$$\text{Profit for 2nd article} = \frac{10}{100} \times 300 = 30$$

$$\text{Overall gain percentage} = \frac{40}{500} \times 100 = 8$$

Question 54

If $\frac{10}{7}(1 - 2.43 \times 10^{-3}) = 1.417 + x$, then x is equal to:

- A 0.0417
- B 0.417
- C 0.0081
- D 0.81

Answer: C

Explanation:

$$\frac{10}{7}(1 - 2.43 \times 10^{-3}) = 1.417 + x$$

$$\frac{10}{7}(1 - 0.00243) = 1.417 + x$$

$$\frac{10}{7} \times 0.99757 = 1.417 + x$$

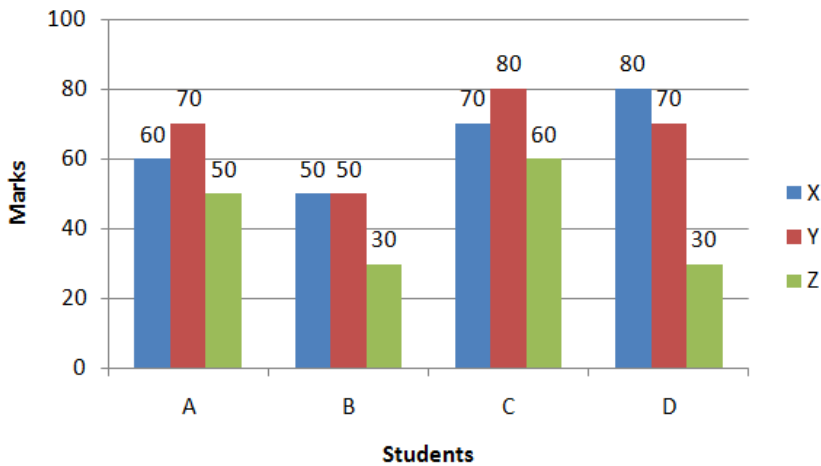
$$1.4251 = 1.417 + x$$

$$x = 0.0081$$

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Question 55

The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.



How much percentage marks more than B has C scored in practical ?

- A 40
- B 30
- C 60
- D 20

Answer: B

Explanation:

$$\text{Full marks of practical} = \frac{5}{15} \times 300 = 100$$

$$\text{Percentage of B} = \frac{50}{100} \times 100 = 50\%$$

$$\text{Percentage of C} = \frac{80}{100} \times 100 = 80\%$$

$$\text{Required percentage} = 80 - 50 = 30$$

Question 56

The simplified value of $\left\{ \frac{1}{4} \text{ of } \left(2\frac{1}{3} \div 1\frac{2}{5} \right) - 1\frac{5}{12} \right\} + \frac{1}{9} \div 2\frac{1}{3} + \frac{2}{7} + \frac{1}{6}$ is:

- A $\frac{7}{3}$
- B $\frac{3}{2}$
- C $\frac{7}{6}$
- D 1

Answer: C

Explanation:

$$\left\{ \frac{1}{4} \text{ of } \left(2\frac{1}{3} \div 1\frac{2}{5} \right) - 1\frac{5}{12} \right\} + \frac{1}{9} \div 2\frac{1}{3} + \frac{2}{7} + \frac{1}{6}$$

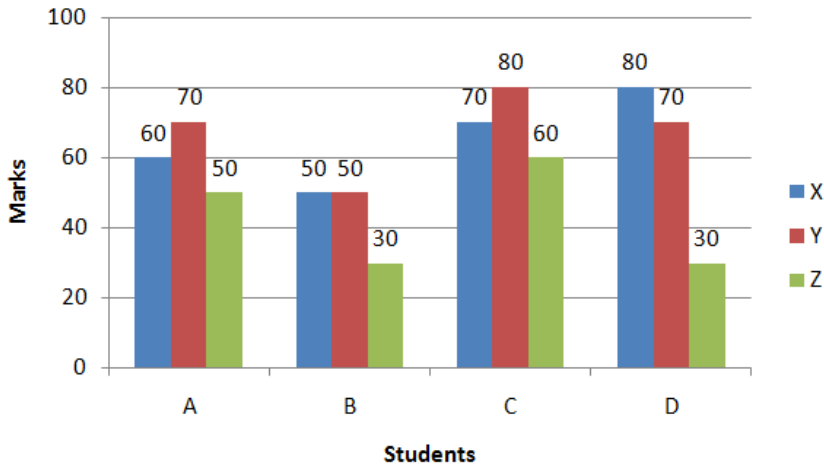
$$\left\{ \frac{5}{4} \times \left(\frac{7}{3} \times \frac{5}{7} \right) - \frac{17}{12} \right\} + \frac{1}{9} \times \frac{3}{7} + \frac{2}{7} + \frac{1}{6}$$

$$\left(\frac{5}{4} \times \frac{5}{3} - \frac{17}{12} \right) + \frac{1}{21} + \frac{19}{42}$$

$$\frac{2}{3} + \frac{1}{21} + \frac{19}{42} = \frac{7}{6}$$

Instructions

The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.



Question 57

Arrange the students B, C and D according to the ascending order of the aggregate marks scored by them.

- A B, D, C
- B B, C, D
- C C, D, B
- D D, B, C

Answer: A

Explanation:

$$\text{Aggregate marks of B} = \frac{(50+50+30)}{300} \times 100 = 43.33\%$$

$$\text{Aggregate marks of C} = \frac{(70+80+60)}{300} \times 100 = 70\%$$

$$\text{Aggregate marks of D} = \frac{(80+70+30)}{300} \times 100 = 60\%$$

Required order = B, D and C

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Question 58

What is the average marks of the four students in theory?

- A 60
- B 65
- C 70
- D 68

Answer: B

Explanation:

$$\text{Required average} = \frac{60+50+70+80}{4} = 65$$

Instructions

For the following questions answer them individually

Question 59

With reference to a number greater than one, the difference between itself and its reciprocal is 25% of the sum of itself and its reciprocal. By how much percentage (correct one decimal place) is the fourth power of the number greater than its square ?

- A 57.8
- B 62.5
- C 64.5
- D 66.7

Answer: D

Explanation:

Let the number be x , then reciprocal = $\frac{1}{x}$

According to the question,

$$x - \frac{1}{x} = 25\% \text{ of } \left(x + \frac{1}{x}\right)$$

$$x - \frac{1}{x} = \frac{1}{4} \left(x + \frac{1}{x}\right)$$

$$4x - \frac{4}{x} = \left(x + \frac{1}{x}\right)$$

$$3x = \frac{5}{x}$$

$$x^2 = \frac{5}{3}$$

$$x = \sqrt{\frac{5}{3}}$$

Now,

$$x^4 = (x^2)^2 = \left(\frac{5}{3}\right)^2 = \frac{25}{9}$$

$$x^2 = \frac{5}{3}$$

$$(x^2)^2 - x^2 = \frac{10}{9}$$

$$\text{Required \%} = \frac{10}{9} \times \frac{3}{5} \times 100 = 66.67\%$$

Question 60

For all α'_i s, ($i = 1, 2, 3, \dots, 20$) lying between 0° and 90° , it is given that $\sin \alpha_1 + \sin \alpha_2 + \sin \alpha_3 + \dots + \sin \alpha_{20} = 20$
What is the value (in degrees) of $(\alpha_1 + \alpha_2 + \alpha_3 + \dots + \alpha_{20})$?

- A 1800
- B 900
- C 0
- D 20

Answer: A

Question 61

The ten digit number $2x60000y8$ is exactly divisible by 24. If $x \neq 0$ and $y \neq 0$, then the least value of $(x + y)$ is equal to:

- A 5
- B 8
- C 9
- D 2

Answer: A

Explanation:

If a number is divisible by both 8 and 3 then the number is divisible by 24 also.

So divisibility rule for 8 is last three digit should be divisible by 8

So, 536 and 576 are the last three digits divisible by 8, so we have to take least value hence, $x = 3$

Now, divisibility rule for 3 is sum of the digits should be divisible by 3

So, $2 + x + 6 + 0 + 0 + 0 + 0 + 0 + y + 8 = 16 + x + y + 6$ should be divisible by 3

$16 + 3 + y = 19 + y$ should be divisible by 3

Now, least value for y which satisfied the condition is 2

So, $x + y = 3 + 2 = 5$

Question 62

The value of $\frac{18.43 \times 18.43 - 6.57 \times 6.57}{11.86}$ is:

- A 23.62
- B 25
- C 26
- D 24.12

Answer: B

Explanation:

$$\frac{18.43 \times 18.43 - 6.57 \times 6.57}{11.86}$$

$$\frac{18.43^2 - 6.57^2}{11.86}$$

$$\frac{(18.43 + 6.57)(18.43 - 6.57)}{11.86}$$

$$\frac{25 \times 11.86}{11.86} = 25$$

Question 63

O, G, and H are respectively the circumcentre, centroid, incentre and orthocentre of an equilateral triangle. Which of these points are identical ?

- A O and I only
- B O and G only
- C O, G, I and H
- D O, G and H only

Answer: C

Explanation:

In equilateral triangle the circumcentre, centroid, incentre and orthocentre lies on same point.

So, O, G, I and H are identical.

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Question 64

A certain sum was invested on simple interest. The amount to which it had grown in five years was $1\frac{1}{4}$ times the amount to which it had grown in three years. The percentage rate of interest was:

- A 10%
- B 20%
- C 25%
- D 15%

Answer: B

Explanation:

Let the principal be Rs 100 and Rate be X %

Net effective rate after 3 years = $3 \times x$

Net effective rate after 5 years = $5 \times x$

According to the question,

$$\frac{5}{4}(100 + 3x) = (100 + 5x)$$

$$500 + 15x = 400 + 20x$$

$$5x = 100$$

$$x = 20$$

Required rate = 20 %

Question 65

A can complete a piece of work in 20 days and B can complete 20% of the work in 6 days. If they work together in how many days can they finish 50% of the work, if they work together ?

- A 12
- B 6
- C 8
- D 9

Answer: B

Explanation:

A can complete the work in 20 days

B can complete 20% in 6 days

B can complete 100% = 30 days

Total work = L.C.M of 20 and 30 = 60 units, so 50% of the work = 30 units

$$\text{Required time take by (A + B)} = \frac{30}{5} = 6 \text{ days}$$

Question 66

What is the value of $\operatorname{cosec}^2 30^\circ + \sin^2 45^\circ + \sec^2 60^\circ + \tan^2 30^\circ$?

A $\frac{53}{6}$

B 8

C $\frac{25}{3}$

D 9

Answer: A

Explanation:

$$\operatorname{cosec}^2 30^\circ + \sin^2 45^\circ + \sec^2 60^\circ + \tan^2 30^\circ$$

Put the values of trigonometrical functions

$$2^2 + (\sqrt{2})^2 + 2^2 + (\frac{1}{\sqrt{3}})^2$$

$$4 + 2 + 4 + \frac{1}{3} = \frac{53}{6}$$

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Question 67

$\triangle ABC \sim \triangle DEF$ and their perimeters are 64 cm and 48 cm respectively. What is the length AB, if DE is equal to 9 cm ?

A 17.5 cm

B 16 cm

C 12 cm

D 18 cm

Answer: C

Explanation:

As we know that ratio of the corresponding sides of similar triangle is in the same ratio of their perimeter.

$$\text{So, } \frac{64}{48} = \frac{AB}{DE}$$

$$\frac{8}{6} = \frac{AB}{9}$$

Hence, AB = 12 cm

Question 68

If $(3x + 1)^3 + (x - 3)^3 + (4 - 2x)^3 + 6(3x + 1)(x - 3)(x - 2) = 0$, then x is equal to:

A -1

B $-\frac{1}{2}$

C 1

D $\frac{1}{2}$

Answer: A

Explanation:

In this question we will go through option,

When we put -1 then

$$(3x + 1)^3 + (x - 3)^3 + (4 - 2x)^3 + 6(3x + 1)(x - 3)(x - 2) = 0$$

$$(-3 + 1)^3 + (-1 - 3)^3 + (4 + 2)^3 + 6(-3 + 1)(-1 - 3)(-1 - 2) = 0$$

$$-72 + 216 - 144 = 0$$

$$0 = 0$$

Hence, $x = -1$.

Question 69

For $0^\circ \leq \theta \leq 90^\circ$, what is θ , when $\sqrt{3} \cos \theta + \sin \theta = 1$?

A 90°

B 0°

C 45°

D 30°

Answer: A

Explanation:

In this question we will go through option,

$$\sqrt{3} \cos \theta + \sin \theta = 1$$

$$\sqrt{3} \cos 90^\circ + \sin 90^\circ = 1$$

$$\sqrt{3} \times 0 + 1 = 1$$

$$1 = 1$$

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Question 70

During a practice session in a stadium an athlete runs along a circular track and her performance is observed by her coach standing at a point on the circle and also by her physiotherapist standing at the centre of the circle. The coach finds that she covers an angle of 72° in 1 min. What will be the angle covered by her in 1 second according to the measurement made by her physiotherapist ?

A It depends on the position of the coach on the circular track

B 4.8°

C 1.2°

D 2.4°

Answer: D

Explanation:

According to the measurement of the coach the athlete covered the angle = 72° in 60 sec

So, the angle made by the athlete at the circumference is = 72°

Now,

The physiotherapist is standing at the centre of the circle.

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

So, according to the measurement of physiotherapist the athlete will make 144° in 60 sec

The angle made by the athlete in 1 second according to the physiotherapist = $\frac{144^\circ}{60} = 2.4^\circ$

Question 71

The two diagonals of a rhombus are respectively, 14 cm and 48 cm. The perimeter of the rhombus is equal to:

- A 120 cm
- B 160 cm
- C 80 cm
- D 100 cm

Answer: D

Explanation:

Rhombus ABCD in which Diagonal AC = 14 cm and BD = 48 cm.

We know that in a rhombus diagonals bisect each other equally at 90° .

AE = 7 cm and EB = 24 cm

Applying Pythagoras Theorem

$$AB^2 = AE^2 + EB^2$$

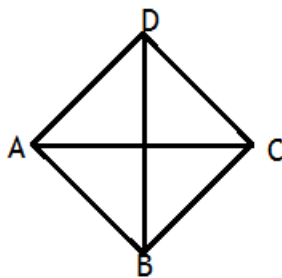
$$AB^2 = 7^2 + 24^2$$

$$AB^2 = 49 + 576$$

$$AB^2 = 625$$

$$AB = 25 \text{ cm}$$

$$\text{So, perimeter of rhombus} = 25 * 4 = 100 \text{ cm}^2$$



Question 72

AB and CD are two chords of a circle which intersect at a point O inside the circle. It is given that, AB = 10 cm, CO = 1.5 cm and DO = 12.5 cm. What is the ratio between the larger and smaller among AO and BO?

- A 7:3
- B 3:2
- C 3:1
- D 4:1

Answer: C

Explanation:

By the property of circle two chords intersect then,

$$AO \times OB = CO \times DO$$

AB = 10, Let AO be the larger = x and BO = 10 - x

$$x \times (10 - x) = 1.5 \times 12.5$$

$$x^2 - 10x = 1.5 \times 12.5$$

$$x^2 - 10x + 18.75 = 0$$

$$x^2 - 2.5x - 7.5x + 18.75 = 0$$

$$x = 7.5 \text{ and } 2.5$$

AO is larger so AO = 7.5 and BO = 2.5

Required ratio = 7.5 : 2.5 = 3 : 1

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Question 73

The ratio of the square of a number to the reciprocal of its cube is $\frac{243}{16807}$. What is the number

A $\frac{2}{7}$

B $\frac{7}{3}$

C $\frac{3}{7}$

D $\frac{5}{7}$

Answer: C

Explanation:

Let the number be $\frac{x}{y}$

Square of the number = $\frac{x^2}{y^2}$

Reciprocal of its cube = $\frac{y^3}{x^3}$

According to the question,

$$\frac{x^2}{y^2} \times \frac{y^3}{x^3} = \frac{243}{16807}$$

$$\frac{x^5}{y^5} = \frac{243}{16807} = \frac{3^5}{7^5}$$

$$\frac{x}{y} = \frac{3}{7}$$

Question 74

The average of 1088 real numbers is zero. At most how many of them can be negative?

A 100

B 88

C 544

D 1087

Answer: D

Explanation:

Average of 1088 real numbers = 0

Sum of 1088 real numbers = $0 \times 1088 = 0$

It may be possible that 1087 numbers are in negative and their sum be $-x$, then 1088th number must be in positive and their sum will be $+x$

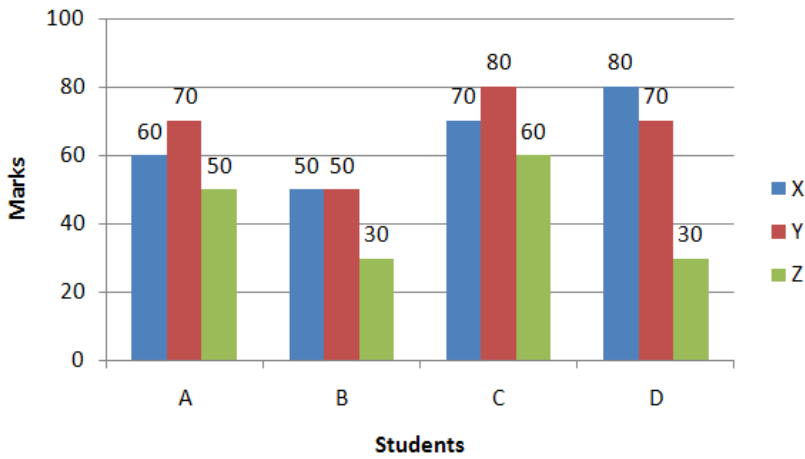
So, $-x + x = 0$

Average = $\frac{0}{20} = 0$

So, 1087 numbers will be in negative.

Question 75

The full marks for a paper is 300. The break-up of the marks into theory (X), practical (Y) and project (Z), which are the three components of evaluation is 6 : 5 : 4. In order to pass one has to score at least 40%, 50% and 50% respectively in X, Y, Z and 60% in aggregate. The marks scored by four students A, B, C and D are shown in the given Bar Graph.



Who among the students could not pass ?

- A A only
- B B and C
- C B only
- D B and D

Answer: D

Explanation:

Full marks of x = $\frac{6}{15} \times 300 = 120$ and pass marks = $120 \times \frac{40}{100} = 48$

Full marks of y = $\frac{5}{15} \times 300 = 100$ and pass marks = $100 \times \frac{50}{100} = 50$

Full marks of z = $\frac{4}{15} \times 300 = 80$ and pass marks = $80 \times \frac{50}{80} = 40$

Aggregate marks for pass = $300 \times \frac{60}{100} = 180$

Hence B and D scored less marks than the required marks.

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English

Instructions

For the following questions answer them individually

Question 76

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 minister promise to looked into the matter of fuel emissions and air pollution.

- A promise to looks into
- B No improvement
- C promised to look into
- D promises to looking at

Answer: C

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Question 77

Select the most appropriate antonym of the given word.

ABSTRACT

- A elusive
- B concrete
- C intangible
- D vague

Answer: B

Question 78

Select the most appropriate meaning of the given idiom
make no headway

- A check if the head can pass through
- B unable to progress ahead
- C unable to overtake anyone
- D forced to fix a new goal

Answer: B

Question 79

Select the most appropriate word to fill in the blank.

Once again, higher food inflation, in combination with fuel and power, provided _____ to the wholesale inflation.

- A impression
- B inspiration
- C insight
- D impetus

Answer: D

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Question 80

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

- A. Using matches however came much later.
- B. The first great discovery that man probably made was that of fire.
- C. In olden times fires were made by rubbing two flints against each other till a spark was produced.
- D. And this spark set fire to dry straw, leaves or wood.

- A CBDA
- B BDAC
- C ADBC
- D BCDA

Answer: D

Question 81

Select the most appropriate antonym of the given word.

HOPE

- A daring
- B courage
- C despair
- D confidence

Answer: C

Question 82

Select the correct indirect form of the given sentence.

The interviewer asked Ramesh, "Do you have any idea about our products?"

- A The interviewer asked Ramesh that if he had any idea about the products.
- B The interviewer asked Ramesh if he have any idea about their products.
- C The interviewer asked Ramesh if he had any idea about their products.
- D The interviewer asked Ramesh if they had any idea about his products.

Answer: C

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Question 83

Select the correct passive form of the given sentence.

Someone gave him a new case for his credit cards.

- A He is given a new case for his credit cards.

- B He had given a new case for his credit cards.
- C He was given a new case for his credit cards.
- D He has given a new case for his credit cards.

Answer: C

Question 84

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

- A. We had already covered half the distance when we reached a three-road junction.
- B. I was worried it might pounce on us.
- C. But thankfully we picked up speed and it got left behind.
- D. Suddenly, a barking dog began to chase the bike for some distance.

- A ABDC
- B DACB
- C BDAC
- D ADBC

Answer: D

Question 85

Identify the segment in the sentence which contains the grammatical error.
She was unable to produce sufficient evidences for support her accusations.

- A to produce
- B She was unable
- C sufficient evidences for
- D support her accusations

Answer: C

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Instructions

Select the most appropriate synonym of the given word.

Question 86

ACCURATE

- A real
- B sincere
- C precise
- D genuine

Answer: C

Question 87

DEDICATION

- A contentment
- B trepidation
- C determination
- D commitment

Answer: D

Instructions

For the following questions answer them individually

Question 88

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.

My professor gave me a lot of useful advices when I was writing my research paper.

- A gave me a lots of useful advices
- B gave me a lot of useful advice
- C No improvement
- D give me lots of useful advices

Answer: B

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Question 89

Select the most appropriate word for the given group of words

A person who sells and arranges cut flowers

- A nutritionist
- B agriculturist
- C florist
- D botanist

Answer: C

Question 90

Select the most appropriate meaning of the given idiom

make short work of something

- A reduce the size
- B dispose of quickly
- C edit carefully
- D shorten some dress

Answer: B

Question 91

Select the correctly spelt word.

- A manegeable
- B managable
- C manageble
- D manageable

Answer: D

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Question 92

Select the most appropriate word for the given group of words

One who draws or produces maps

- A cartographer
- B photographer
- C designer
- D draftsman

Answer: A

Question 93

Select the most appropriate word to fill in the blank.

As he crossed the desert he nearly _____ to thirst when he was forced to go without water for four days and five nights.

- A succumbed
- B subsisted
- C survived
- D submerged

Answer: A

Question 94

Select the wrongly spelt word.

- A fortieth
- B seventeenth
- C fifteenth
- D fourteenth

Answer: A

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Question 95

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

The team began searching for reasons for their poor performance in the tournament.

- A The team began
- B in the tournament
- C searching for reasons
- D for their poor performance

Answer: D

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:

If winter seems to be the season for migratory birds to flock to warmer climates, summer time is ideal for wetland birds. (1) _____ fifty kilometers from Warangal in Telangana, Pakhal lake (2) _____ to be playing host to (3) _____ wide variety of flora and fauna (4) _____ season. Wetland birds from North and Central India come (5) _____ the south in search of larger water bodies.

Question 96

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

- A Totally
- B But
- C Nearly
- D Not

Answer: C

Question 97

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

- A will seems
- B seems
- C was seemed
- D seem

Answer: B

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Question 98

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

- A one

B a

C the

D an

Answer: B

Question 99

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

A their

B these

C this

D that

Answer: C

Question 100

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

A below

B towards

C away

D about

Answer: B

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