



SSC CGL 6th March 2020 Shift-2

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General Intelligence and Reasoning

Instructions

For the following questions answer them individually

Question 1

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

Crop : Farmer :: Food : ?

- A Vegetables
- B Chef
- C Utensil
- D Kitchen

Answer: B

Explanation:

Farmer prepare the crop similarly, chef prepare the food.

∴ The correct answer is option B.

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Question 2

Select the letter-cluster that can replace the question mark (?) in the following series.

qDx, nHs, kLn, hPi, ?

- A EtD
- B fTe
- C eTd
- D eSd

Answer: C

Explanation:

The series follows pattern as,

$$(q - 3)(D + 4)(x - 5) = nHs$$

$$(n - 3)(H + 4)(s - 5) = kLn$$

$$(k - 3)(L + 4)(n - 5) = hPi$$

$$(h - 3)(p + 4)(i - 5) = eTd$$

∴ The correct answer is option C.

Question 3

If the following words are arranged as per their order in the English dictionary, which word will come fifth in the sequence?

1. Weekly
2. Weather
3. Weird
4. Weaver
5. Weight
6. Wielded

- A Weight
- B Weird

C Wielded

D Weekly

Answer: B

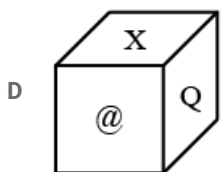
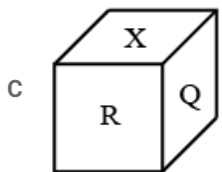
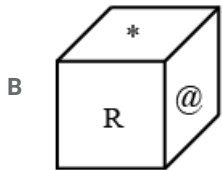
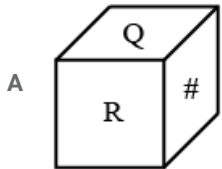
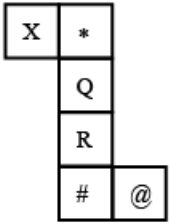
Explanation:

Arrangement of the word according to the English dictionary,
Weather, Weaver, Weekly, Weight, Weird, Wielded
So, word which comes fifth number = Weird

∴ The correct answer is option B.

Question 4

Select the cube that can be formed by folding the given sheet (unfolded box) along the lines.



Answer: C

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Question 5

Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

A 16, 8

B 36, 2

C 14,8

D 28,5

Answer: D

Explanation:

$$16 + 8 = 24$$

$$36 + 2 = 38$$

$$14 + 8 = 22$$

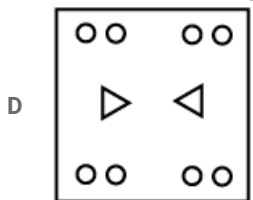
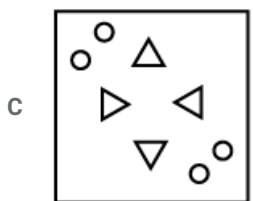
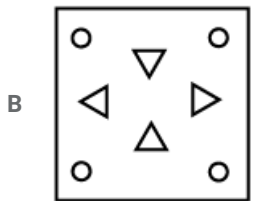
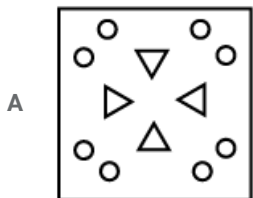
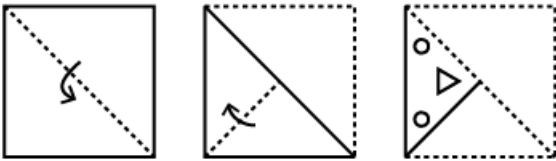
$$28 + 5 = 33$$

Except option D, in the remaining options have the sum of the number is even.

∴ The correct answer is option D.

Question 6

The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Answer: A

Question 7

Which of the following sets is best represented by the given Venn diagram.



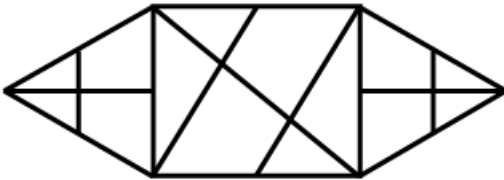
- A House, Window, Tenant
- B Paragraph, Sentence, Pen
- C Weeks, Years, Months
- D Truck, Ships, Transport

Answer: C

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Question 8

How many triangles are present in the given figure?



- A 18
- B 23
- C 22
- D 20

Answer: C

Question 9

The two given expressions on both the side of the '=' sign will have the same value if two numbers from either side or both side are interchanged. Select the correct numbers to be interchanged from the given options.

$$4 + 6 \times 7 - 27 \div 3 = 7 \times 8 - 4 + 39 \div 3$$

- A 8, 7
- B 6, 8
- C 3, 4
- D 6, 4

Answer: B

Explanation:

$$4 + 6 \times 7 - 27 \div 3 = 7 \times 8 - 4 + 39 \div 3$$

After interchanged,

$$4 + 8 \times 7 - 27 \div 3 = 7 \times 6 - 4 + 39 \div 3$$

$$4 + 8 \times 7 - 9 = 7 \times 6 - 4 + 13$$

$$4 + 56 - 9 = 42 - 4 + 13$$

$$51 = 51$$

∴ The correct answer is option B.

Question 10

Select the option that is related to the third number in the same way as the second number is related to the first number and the sixth number is related to the fifth number.

78 : 117 :: 90 : ? :: 108 : 162

A 144

B 126

C 117

D 135

Answer: D

Explanation:

$$78 + 78/2 = 78 + 39 = 117$$

$$108 + 108/2 = 108 + 54 = 162$$

Similarly,

$$90 + 90/2 = 90 + 45 = 135$$

∴ The correct answer is option D.

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Question 11

In a certain code language, BREATHER is coded as 29512859. How will AVIATION be coded as in that language?

A 14912965

B 14912956

C 12912954

D 12910965

Answer: A

Explanation:

$$B = 2$$

$$R(18) = 1 + 8 = 9$$

$$E = 5$$

$$A = 1$$

$$T(20) = 2 + 0 = 2$$

$$H = 8$$

$$E = 5$$

$$R(18) = 1 + 8 = 9$$

Similarly,

$$A = 1$$

$$V(22) = 2 + 2 = 4$$

$$I = 9$$

$$A = 1$$

$$T(20) = 2 + 0 = 2$$

$$I = 9$$

$$O(15) = 1 + 5 = 6$$

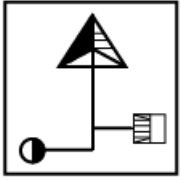
$N(14) = 1 + 4 = 5$

'AVIATION' is coded as '14912965'.

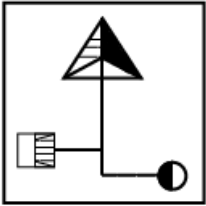
∴ The correct answer is option A.

Question 12

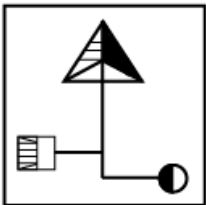
Which of the option figures is the exact mirror image of the given figure when the mirror is held at the right side?



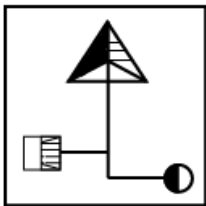
A



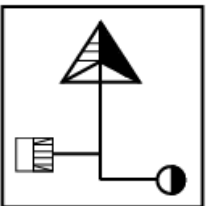
B



C



D



Answer: A

Question 13

Select the set of letters that when sequentially placed in the blanks of the given letter series will complete the series.

_m_l_n_m_l_m_n_k_k_n_l

A l,n,k,l,n

B k,n,k,l,m

C k,l,k,l,m

D m,n,k,l,m

Answer: B

Explanation:

The series as
kmnl/nkml/mnkl/kmnl
∴ The correct answer is option B.

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Question 14

$A + B$ means 'A is the father of B';

$A - B$ means 'A is the sister of B';

$A \times B$ means 'A is the brother of B';

$A \div B$ means 'A is the daughter of B'.

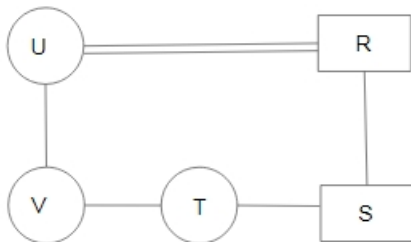
If, $R + S \times T - V \div U$, then how is S related to U?

- A Son
- B Daughter
- C Brother
- D Husband

Answer: A

Explanation:

In the diagram, Circle shows the female, square shows the male, vertical lines show the generation, single horizontal line shows the brother/sister and double horizontal lines show the couple.



From the diagram,
'S' is the son of 'U'.

∴ The correct answer is option A.

Question 15

Select the number that can replace the question mark (?) in the following series.

11, 12, 36, 41, ?, 296

- A 205
- B 287
- C 48
- D 123

Answer: B

Explanation:

The series follows pattern as,

$$11 + 1 = 12$$

$$12 \times 3 = 36$$

$$36 + 5 = 41$$

$$41 \times 7 = 287$$

$$287 + 9 = 296$$

∴ The correct answer is option B.

Question 16

Four words have been given, out of which three are alike in some manner, while one is different. Select the odd word

- A Copper
- B Iron
- C Brass
- D Silver

Answer: C

Explanation:

All the others are pure metal except brass as we know **brass is an alloy** of copper and zinc, in proportions which can be varied to achieve varying mechanical and electrical properties.

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Question 17

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

10	4	7	5
15	7	8	25
14	3	6	12
10	?	14	65

- A 14
- B 16
- C 10
- D 18

Answer: B

Explanation:

$$(15 - 14) \times 10 = 1 \times 10 = 10$$

$$(8 - 6) \times 7 = 2 \times 7 = 14$$

$$(25 - 12) \times 5 = 13 \times 5 = 65$$

Similarly,

$$(7 - 3) \times 4 = 4 \times 4 = 16$$

∴ The correct answer is option B.

Instructions

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow from the statements.

Question 18

Statements:

1. All books are magazines.
2. Some books are novels.

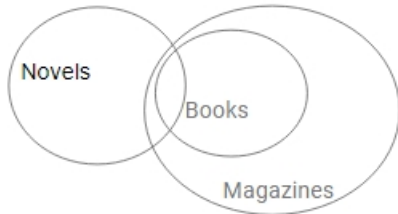
Conclusions:

- I. Some magazines are books.
- II. No magazine is a book.
- III. No novel is a magazine.
- IV. Some novels are books.

- A Only conclusions I, III and IV follow.
- B Only conclusions I and IV follow.
- C Only conclusions II and III follow.
- D Only conclusions I and II follow.

Answer: B

Explanation:



From the Venn diagram,
Conclusion I and IV are follow.
∴ The correct answer is option B.

Instructions

For the following questions answer them individually

Question 19

Select the option figure in which the given figure is embedded (rotation is NOT allowed).



- A
- B
- C
- D

Answer: B

Question 20

In a certain code language, 'VERBAL' is written as 'QNMYXK' and 'REACH?' is written as 'MNXZF'. How will 'BRAVE' be written as in that language?

- A KQNMX
- B YNXQM
- C YMXQN
- D KMQXN

Answer: C

Explanation:

V is written as Q,
E is written as N,
R is written as M,
B is written as Y,
A is written as X,
L is written as K,

And

R is written as M,
E is written as N,
A is written as X,
C is written as Z,
H is written as F,

Similarly,

'BRAVE' is written as 'YMXQN'

∴ The correct answer is option C.

Question 21

A group of three friends, K, L and M, are sitting in a cafe. Their average age is 24 years. Another friend 'N' joins the group and the new average age of the group becomes 23 years. If another friend 'R', whose age is 2 years more than that of 'N', replaces 'K', then the average age of L, M, N and R becomes 22.5 years. What is the age of K?

- A 15 years
- B 10 years
- C 12 years
- D 14 years

Answer: D

Explanation:

Average of K, L and M = 24

Sum of the age of K, L and M = $24 \times 3 = 72$

Average of K, L, M and N = 23

Sum of the age of K, L, M and N = $23 \times 4 = 92$

Age of N = $92 - 72 = 20$

Age of R = $2 + \text{Age of N} = 2 + 20 = 22$

Average age of L, M, N and R = 22.5 years

Sum of age of L, M, N and R = $22.5 \times 4 = 90$

Sum of age of L, M and N = $90 - 22 = 68$

Age of K = sum of the age of K, L, M and N - sum of age of L, M and N = $92 - 68 = 24$

Question 22

Fourletter-clusters have been given, out of which three are alike in some manner, while one is different. Select the odd letter-cluster.

- A SWIK
- B VINE
- C NOHA
- D LAIM

Answer: A

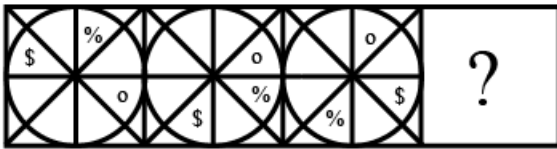
Explanation:

Except option A remaining all have 2 vowels.
 ∴ The correct answer is option A.

General Science Notes for SSC CGL

Question 23

Select the figure that can replace the question mark (?) in the following series.



- A
- B
- C
- D

Answer: A

Question 24

Select the option in which the numbers are related in the same way as are the numbers in the given set.
 (343, 98, 21)

- A (217, 72, 18)
- B (1728, 288, 24)

C (1331, 242, 33)

D (512, 126, 27)

Answer: C

Explanation:

In (343, 98, 21),

$$(7)^3 = 343$$

$$(7)^2 \times 2 = 98$$

$$7 \times 3 = 21$$

Similarly,

In (1331, 242, 33),

$$(11)^3 = 1331$$

$$(11)^2 \times 2 = 242$$

$$11 \times 3 = 33$$

∴ The correct answer is option C.

Question 25

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

_uvvwv_wvtuw_uvwwv_wv_uw

A t t t t

B t u t u t

C t v w t t

D t t u t v

Answer: A

Explanation:

Sequence of the letters,

tuvwwv/wvtuw/tuvwwv/wvtuw

∴ The correct answer is option A.

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Which of the following states does NOT share its boundary with Bhutan?

A West Bengal

B Meghalaya

C Sikkim

D Arunachal Pradesh

Answer: B

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Question 27

The first electron shell which is the nearest to the nucleus never holds more than 'n' electrons, where 'n' is equal to:

- A 8
- B 4
- C 6
- D 2

Answer: D

Question 28

With which sport is Archana Kamath associated?

- A Lawn Tennis
- B Squash
- C Table Tennis
- D Badminton

Answer: C

Question 29

In the context of rivers and their tributaries, which of the following pairs is correct?

- A Krishna - Manjra
- B Godavari - Kabini
- C Indus - Subansiri
- D Alaknanda - Pindar

Answer: D

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Question 30

Which of the following is a heritage site of Madhya Pradesh?

- A Lepakshi
- B Bhimbetka
- C Sasaram
- D Hampi

Answer: B

Question 31

The Arid Forest Research Institute is located in

- A Jodhpur
- B Jaipur
- C Ahmedabad
- D Dehradun

Answer: A

Question 32

Which female Indian cricketer won the BCCI C.K. Nayudu Lifetime Achievement Award for 2019?

- A Shantha Rangaswamy
- B Diana Edulji
- C Anjum Chopra
- D Jhulan Goswami

Answer: C

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Question 33

Which ISO certification pertains to Environmental Management Systems?

- A 9001
- B 27001
- C 14001
- D 22000

Answer: C

Question 34

Who is the author of the book 'Hazaar Chaurasi Ki Maa'?

- A Krishna Sobti
- B Sugathakumari
- C Rita Kothari
- D Mahasweta Devi

Answer: D

Question 35

In January 2020, with which country did India sign a MoU for content exchange programme between All India Radio and Betar?

- A Sri Lanka
- B Bangladesh

C Bhutan

D Nepal

Answer: B

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Question 36

The SASTRA - Ramanujan Prize is awarded in the field of:

A Dance

B Chemistry

C Literature

D Mathematics

Answer: D

Question 37

Under which Article can the Parliament amend the Constitution?

A Article 269

B Article 74

C Article 374

D Article 368

Answer: D

Question 38

The Act that transferred the power from the British East India Company to the British Crown in India was:

A Government of India Act, 1835

B Government of India Act, 1947

C Government of India Act, 1833

D Government of India Act, 1858

Answer: D

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Question 39

In July 2019, which among the following operations was launched by the BSF to fortify the Pakistan border in Punjab and Jammu?

A Chakravyuh

B Garuda

C Vayuputra

D Sudarshan

Answer: D

Question 40

Which of the following pairs is associated with the taxation system of the Marathas?

A Polaj and Parauti

B Iqta and Jagir

C Chauth and Sardeshmukh

D Zat and Sawar

Answer: C

Question 41

How many degrees does the Earth rotate about its own axis in one hour?

A 10

B 20

C 15

D 24

Answer: C

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Question 42

Under which of the following Amendments to the Constitution of India is defection to another party after election made illegal?

A 92nd

B 61st

C 52nd

D 86th

Answer: C

Question 43

In which year was NABARD established?

A 1979

B 1978

C 1982

D 1981

Answer: C

Question 44

Which among the following is the food tube?

- A Thymus
- B Aorta
- C Larynx
- D Oesophagus

Answer: D

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Question 45

Which of the following monuments is NOT a part of the Qutub Complex?

- A Quwwat-ul-Islam Mosque
- B Qutub Minar
- C Buland Darwaza
- D Alai Darwaza

Answer: C

Question 46

Which of the following statements is correct with reference to the Karachi Session of the Congress (1931)?

- A Mahatma Gandhi presided over the session
- B The Gandhi-Irwin Pact was ratified
- C The Khilafat movement was launched at this event
- D The Quit-India Resolution was passed

Answer: B

Question 47

Ozone at the higher level of the atmosphere is a product of _____ acting on oxygen molecules.

- A IR radiation
- B UV radiation
- C gamma rays
- D x-rays

Answer: B

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Question 48

The Battle of Chausa was fought between Humayun and

- A Nadir Shah
- B Krishnadeva Raya
- C Hemu
- D Sher Shah Suri

Answer: D

Question 49

Which of the following is an east flowing river?

- A Sabarmati
- B Sharavati
- C Mahi
- D Brahmani

Answer: D

Question 50

Which country hosted the 13th South Asian Games?

- A Maldives
- B Bhutan
- C Nepal
- D India

Answer: C

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Quantitative Aptitude

Instructions

For the following questions answer them individually

Question 51

During a medical check-up, the heights of 40 students in a class were recorded as shown in the following table.

Height (in cm)	less than 175	less than 170	less than 165	less than 160	less than 155	less than 150
Number of students	40	35	25	16	8	4

How many students have a height of 165 cm or more?

- A 15

- B 10
- C 25
- D 16

Answer: A

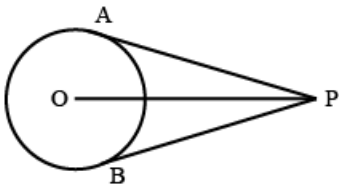
Explanation:

Number of students which have a height of 165 cm or more = total student - less than 165 = 40 - 25 = 15

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Question 52

In the given figure, if $\angle APO = 35^\circ$, then which of the following options is correct?

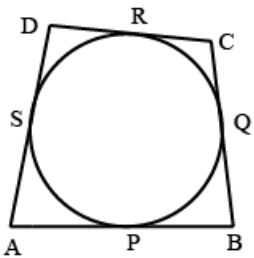


- A $\angle APB = 60^\circ$
- B $\angle APB = 80^\circ$
- C $\angle APB = 35^\circ$
- D $\angle APB = 55^\circ$

Answer: C

Question 53

In the given figure, if $AB = 10$ cm, $CD = 7$ cm, $SD = 4$ cm and $AS = 5$ cm, then $BC = ?$



- A 9 cm
- B 7.5 cm
- C 6 cm
- D 8 cm

Answer: D

Question 54

If $a + \frac{1}{a} = 5$ then $a^3 + \frac{1}{a^3}$ is:

- A 110

- B 10
- C 80
- D 140

Answer: A

Explanation:

$$a^3 + a^3$$

$$= (a + \frac{1}{a})^3 - 3(a + \frac{1}{a})$$

$$(\because (a + b)^3 = a^3 + b^3 + 3ab(a + b))$$

$$= 5^3 - 3(5) = 110$$

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Question 55

The following table shows the daily earnings of 45 skilled workers.

Earnings (in ₹)	700 to 800	800 to 900	900 to 1,000	1,000 to 1,100	1,100 to 1,200	1,200 to 1,300
Number of workers	4	15	10	10	4	2

How many workers earn less than ₹1,100 in a day?

- A 39
- B 10
- C 29
- D 43

Answer: A

Explanation:

Number of workers earn less than ₹1,100 in a day = 4 + 15 + 10 + 10 = 39

Question 56

Amit and Sunil together can complete a work in 9 days, Sunil and Dinesh together can complete the same work in 12 days, and Amit and Dinesh together can complete the same work in 18 days. In how many days will they complete the work if Amit, Sunil and Dinesh work together?

- A 12 days
- B 8 days
- C 14 days
- D 16 days

Answer: B

Explanation:

Let the total work be 36 units.

(∵ LCM of 9, 12 and 18 is 36.)

Efficiency of Amit and Sunil = work/time = $36/9 = 4$ units/day

Efficiency of Sunil and Dinesh = $36/12 = 3$ units/day

Efficiency of Amit and Dinesh = $36/18 = 2$ units/day

Efficiency of Amit, Sunil and Dinesh = $\frac{4+3+2}{2} = 9/2$

Time taken by Amit, Sunil and Dinesh to complete the work = $\frac{36}{9/2} = 8$ days

Question 57

Solve the following

$$113 \times 87 = ?$$

- A 9831
- B 10026
- C 10169
- D 10000

Answer: A

Explanation:

$$113 \times 87 = ?$$

$$(100 + 13) \times (100 - 13) = ?$$

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

$$(100)^2 - (13)^2 = ?$$

$$? = 10000 - 169 = 9831$$

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Question 58

Amit borrowed a sum of ₹25,000 on simple interest. Bhola borrowed the same amount on compound interest(interest compounded yearly). At the end of 2 years, Bhola had to pay ₹160 more interest than Amit. The rate of interest charged per annum is:

- A $\frac{16}{25}\%$
- B $\frac{8}{25}\%$
- C 8%
- D $3\frac{1}{8}\%$

Answer: C

Explanation:

Difference of the compound interest and simple interest = 160

$$p\left(1 + \frac{r}{100}\right)^t - p - \frac{prt}{100} = 160$$

$$p = 25000$$

$$t = 2$$

$$25000\left(1 + \frac{r}{100}\right)^2 - 25000 - \frac{25000 \times r \times 2}{100} = 160$$

$$25000\left(1 + \left(\frac{r}{100}\right)^2 + \frac{2r}{100}\right) - 25000 - \frac{25000 \times r \times 2}{100} = 160$$

$$25000 \times \left(\frac{r}{100}\right)^2 = 160$$

$$r^2 = 160/2.5$$

$$r^2 = 64$$

$$r = 8\%$$

∴ The rate of interest is 8%.

Question 59

The number of students enrolled in a college is shown in the following table.

Science		Arts		Commece		Vocational	
Girls	Boys	Girls	Boys	Girls	Boys	Girls	Boys
35	18	25	47	45	40	10	30

The ratio of the total number of boys to that of girls in the college is:

A 13 : 42

B 1:1

C 23:27

D 27:23

Answer: D

Explanation:

Total number of boys = 18 + 47 + 40 + 30 = 135

Total number of girls = 35 + 25 + 45 + 10 = 115

The ratio of the total number of boys to that of girls in the college = 135 : 115 = 27 : 23

Question 60

A manufacturer sells cooking gas stoves to shopkeepers at 10% profit, and in turn they sell the cooking gas stoves to customer to earn 15% profit. If a customer gets a cooking gas stove for ₹7,590, then what is its manufacturing cost?

A ₹ 6,500

B ₹5,000

C ₹5,090

D ₹6,000

Answer: D

Explanation:

Selling price for shopkeeper = Rs.7590

Profit = 15%

Cost price for shopkeeper = $\frac{7590}{115} \times 100 = \text{Rs.}6600$

Selling price for manufacturer = Rs.6600

Profit = 10%

Cost price for manufacturer = $\frac{6600}{110} \times 100 = \text{Rs.}6000$

Question 61

A shopkeeper marked a computer table for ₹7,200. He allows a discount of 10% on it and yet makes profit of 8%. What will be his gain percentage if he does NOT allow any discount?

- A 20 %
- B 9 %
- C 18 %
- D 2 %

Answer: A

Explanation:

Marked price of computer table = Rs.7200

Discount = 10%

$$\text{Selling price} = 7200 \times \frac{90}{100} = \text{Rs.6480}$$

Profit = 8%

$$\text{Cost price} = \frac{6480}{108} \times 100 = \text{Rs.6000}$$

$$\text{Gain percentage if he does NOT allow any discount} = \frac{7200 - 6000}{6000} \times 100 = 20\%$$

Question 62

The value of $\frac{\sin 30^\circ \sin 60^\circ}{\cos 60^\circ \cos 30^\circ} - \tan 45^\circ$ is:

- A 5
- B 0
- C $\frac{2-\sqrt{2}}{2}$
- D 2

Answer: B

Explanation:

$$\frac{\sin 30^\circ \sin 60^\circ}{\cos 60^\circ \cos 30^\circ} - \tan 45^\circ$$

Put the values in the expression,

$$\frac{1}{2} \times \frac{\sqrt{3}}{2} - 1$$

$$= 1 - 1 = 0$$

Question 63

Solve the following.

$$\frac{4}{3} \div \frac{1}{6} \times 2 - 1 = ?$$

- A 3
- B -2
- C 8
- D 15

Answer: D

Explanation:

$$\frac{4}{3} \div \frac{1}{6} \times 2 - 1 = ?$$

$$\frac{4}{3} \times 6 \times 2 - 1 = ?$$

$$16 - 1 = ?$$

$$? = 15$$

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Question 64

In a school, 4 % of the students did not appear for the annual exams. 10% of the students who appeared for the exams could not pass the exam. Out of the remaining students, 50% got distinction marks and 432 students passed the exam but could not get distinction marks. The total number of students in the school is:

- A 1000
- B 1200
- C 960
- D 878

Answer: A

Explanation:

Let the total students in the school be 100%.

Appeared student in the exam = $100 - 4 = 96\%$

Number of student which are not pass in the exam = $96\% \times \frac{10}{100} = 9.6\%$

Number of student which are pass in the exam = $96 - 9.6 = 86.4\%$

Number of student which are not get distinction marks in the exam = 432

50% of the remaining students = 432

$$86.4\% \times \frac{50}{100} = 432$$

$$43.2\% = 432$$

$$\text{Total students}(100\%) = \frac{432}{43.2} \times 100 = 1000$$

Question 65

24 students collected money for donation. The average contribution was ₹50. Later on, their teacher also contributed some money. Now the average contribution is ₹56. The teacher's contribution is:

- A ₹56
- B ₹200
- C ₹106
- D ₹194

Answer: B

Explanation:

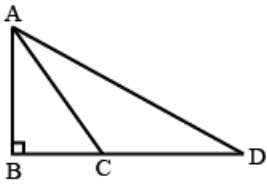
Total money contribution by 24 students = average \times no. of students = $50 \times 24 = 1200$

Total money contribution by 24 students and their teacher = $56 \times 25 = 1400$

Teacher's contribution = $1400 - 1200 = \text{Rs.}200$

Question 66

In the given figure, if $AB = 8\text{cm}$, $AC = 10\text{cm}$, $\angle ABD = 90^\circ$ and $AD = 17\text{cm}$, then the measure of CD is:



- A 8 cm
- B 9 cm
- C 11 cm
- D 10 cm

Answer: B

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Question 67

If $(\cos^2 \theta - 1)(1 + \tan^2 \theta) + 2 \tan^2 \theta = 1$, $0^\circ < \theta < 90^\circ$ then θ is:

- A 30°
- B 90°
- C 60°
- D 45°

Answer: D

Explanation:

$$(\cos^2 \theta - 1)(1 + \tan^2 \theta) + 2 \tan^2 \theta = 1$$

$$(-\sin^2 \theta)(\sec^2 \theta) + 2 \tan^2 \theta = 1$$

$$-\frac{\sin^2 \theta}{\cos^2 \theta} + 2 \tan^2 \theta = 1$$

$$-\tan^2 \theta + 2 \tan^2 \theta = 1$$

$$\tan^2 \theta = 1$$

For $0^\circ < \theta < 90^\circ$,

$$\theta = 45^\circ$$

Question 68

The largest number which should replace * in the number $2365*4$ to make the number divisible by 4 is:

- A 9
- B 2
- C 0
- D 8

Answer: D

Explanation:

For the divisibility by 4, last 2 digit of the number should be divisible by 4. So,
For the largest number,
value of * = 8.

Question 69

In a triangle, if the measures of two sides are 5 cm and 8 cm, then the third side can be:

- A 3 cm
- B 14 cm
- C 2 cm
- D 4 cm

Answer: D

Explanation:

For third side of triangle,
 $8 - 5 < \text{third side of triangle} < 5 + 8$
 $= 3 < \text{third side of triangle} < 13$

Third side should be greater than 3 and less than 13 so,
By option, correct answer is 4 cm.

General Science Notes for SSC CGL

Question 70

Two cyclists X and Y start at the same time from place A and go towards place B at a speed of 6 km/h and 8 km/h, respectively. Despite stopping for 15 minutes during the journey, Y reaches 10 minutes earlier than X. The distance between the places A and B is:

- A 6 km
- B 16.5 km
- C 8 km
- D 10 km

Answer: D

Explanation:

Time = distance/speed

Time taken by x to reach destination = Time taken by y to reach destination + 10 min

Let the Distance be d.

$$\frac{d}{6} = \frac{d}{8} + \frac{15}{60} + \frac{10}{60}$$

$$\frac{d}{6} = \frac{d}{8} + \frac{1}{4} + \frac{1}{6}$$

$$\frac{d}{6} = \frac{3d+6+4}{24}$$

$$d = \frac{3d+10}{4}$$

$$4d = 3d + 10$$

$$d = 10 \text{ km}$$

∴ The distance between the places A and B is 10 km.

Question 71

Solve the following. $\sin 0^\circ \sin 30^\circ \sin 45^\circ \sin 60^\circ \sin 90^\circ = ?$

- A 0
- B 4
- C $\frac{\sqrt{6}}{8}$
- D 1

Answer: A

Explanation:

$$\sin 0^\circ \sin 30^\circ \sin 45^\circ \sin 60^\circ \sin 90^\circ = ?$$

$$\sin 0^\circ = 0$$

So,

$$? = 0$$

Question 72

The coefficient of x in $(x - 3y)^3$ is :

- A $3y^2$
- B $27y^2$
- C $-27y^2$
- D $-3y^2$

Answer: B

Explanation:

$$(x - 3y)^3 = x^3 - (3y)^3 - 3x \cdot 3y(x - 3y)$$

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

$$= x^3 - 27y^3 - 9xy(x - 3y)$$

$$= x^3 - 27y^3 - 9x^2y - 27xy^2$$

The coefficient of x = $27y^2$

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Question 73

The lengths of the diagonals of a rhombus are 16 cm and 12 cm. Its area is:

- A 48 cm^2
- B 28 cm^2
- C 69 cm^2
- D 96 cm^2

Answer: D

Explanation:

Area of a rhombus = $(1/2) \times$ multiplication of diagonals

$$= (1/2) \times 16 \times 12 = 96 \text{ cm}^2$$

Question 74

In wallet, there are notes of the denominations ₹10 and ₹50. The total number of notes is 12. The number of ₹10 and 50 notes are in the ratio of 1 : 2. Total money in the wallet is:

- A ₹ 360
- B ₹ 280
- C ₹ 110
- D ₹ 440

Answer: D

Explanation:

The ratio of the number of ₹10 and ₹50 notes = 1 : 2

The total number of notes = 12

The number of ₹10 notes = $\frac{1}{1+2} \times 12 = 4$

Money from the ₹10 notes = $4 \times 10 = \text{Rs.}40$

The number of ₹50 notes = $12 - 4 = 8$

Money from the ₹50 notes = $8 \times 50 = \text{Rs.}400$

Total money in the wallet = $40 + 400 = \text{Rs.}440$

Question 75

The following table shows the income(in ₹) for a particular month, together with their source, in respect of 5 employees (A, B, C, D and E)

	A	B	C	D	E
Salary	52,000	48,500	42,000	31,000	25,000
Overtime	0	0	1,500	2,500	3,200
Arrears	5,500	4,500	4,000	3,000	1,500
Bonus	3,500	3,000	2,500	2,000	2,000
Miscellaneous income	5,000	3,000	2,000	1,500	0
Total	66,000	59,000	52,000	40,000	31,700

How many employees got more than a total of ₹10,000 as income other than salary?

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

Answer: D

Explanation:

Salary of A = 52000

Other income = total - salary

Other income of A = 66000 - 52000 = 14000

Salary of B = 48500

Other income of B = 59000 - 48500 = 10500

Salary of C = 42000

Other income of C = 52000 - 42000 = 10000

Salary of D = 31000

Other income of D = 40000 - 31000 = 9000

Salary of E = 25000

Other income of E = 31700 - 25000 = 6700

∴ 2 employees(A and B) got more than a total of ₹10,000 as income other than salary.

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English Comprehension

Instructions

For the following questions answer them individually

Question 76

Select the correct passive form of the given sentence.

- A A child could understand his theory.
- B His theory is being understood by a child.
- C His theory could be understood by a child.
- D His theory was understood by a child.

Answer: C

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Question 77

Select the most appropriate meaning of the given idiom.

Pull a fast one

- A Take quick action
- B Believe someone easily
- C Progress fast
- D Trick someone

Answer: D

Question 78

Select the most appropriate option to fill in the blank.

The poor man was _____ entry to the restaurant.

- A derived
- B denied
- C devoid
- D deluded

Answer: B

Explanation:

The word that fits the best is 'denied'.

Question 79

Select the most appropriate antonym of the given word.

FICKLE

- A Flighty
- B Subtle
- C Stable
- D Crafty

Answer: C

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Question 80

In the sentence identify the segment which contains the grammatical error.

We had a long discussion at a cup of coffee.

- A We had
- B a long discussion
- C at a cup
- D of coffee

Answer: C

Question 81

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

- A. These lotteries organised by State Governments sell dreams.
- B. Lured by this, millions of poor people waste their hard-earned money.
- C. Crores of rupees and gold are offered as prizes.
- D. People buy lotteries hoping to become rich overnight.

- A CABD
- B CBAD
- C DACB
- D DBCA

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:

Agra's marble-marvel has such an overwhelming presence (1)_____ other monuments in the town have been relegated (2) _____ oblivion. Amongst such 60 odd monuments in (3) _____ town, the Red Taj is the most (4) _____ and relatively well-preserved. The tomb in red sandstone was (5) _____ by Ann Hessing, widow of a Dutch officer, after his death in 1803.

Question 82

Select the correct option to fill in blank 1.

- A but
- B that
- C if
- D than

Answer: B

Explanation:

The word that fits the blank appropriately is "that".

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Question 83

Select the correct option to fill in blank 2.

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

Answer: B

Question 84

Select the correct option to fill in blank 3.

- A their
- B a
- C the
- D an

Answer: C

Question 85

Select the correct option to fill in blank 4.

- A active

- B elegant
- C efficient
- D adequate

Answer: B

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Question 86

Select the correct option to fill in blank 5.

- A build
- B building
- C to build
- D bulit

Answer: D

Instructions

For the following questions answer them individually

Question 87

Select the INCORRECTLY spelt word

- A Delegait
- B Rebel
- C Edible
- D Monarch

Answer: A

Question 88

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

- A. These are generated by a violent undersea disturbance or ocean activity.
- B. Once generated, they travel outward on the ocean surface in all directions.
- C. A tsunami is made up of a series of very long waves.
- D. Spreading thus, they look like ripples caused by throwing a rock in a pond.

- A BADC
- B BDCA
- C CBDA
- D CABD

Answer: D

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Question 89

Select the correct indirect form of the given sentence.
Mahesh said to Rita, "Don't play in the sun."

- A Mahesh advised Rita not to play in the sun
- B Mahesh told to Rita to not play in the sun.
- C Mahesh ordered Rita that not play in the sun
- D Mahesh requested Rita that don't play in the sun

Answer: A

Question 90

Select the most appropriate synonym of the given word.
DISHEARTENED

- A depressed
- B disgraced
- C disgusted
- D disliked

Answer: A

Question 91

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**.

They stopped to laugh as soon as the teacher entered the classroom.

- A No improvement
- B stop laughing
- C stopped laughing
- D stopped laugh

Answer: C

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Question 92

Select the most appropriate one word substitution for the given group of words.
Pertaining to an individual from birth

- A Congenital
- B Anomaly
- C Chronic
- D Habitual

Answer: A

Question 93

Select the most appropriate option to fill in the blank.

Have you _____ for a job in this company?

- A appointed
- B supplied
- C approved
- D applied

Answer: D

Question 94

In the sentence identify the segment which contains the grammatical error.

The both children go to the same school.

- A to the
- B The both
- C children go
- D same school

Answer: B

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Question 95

Select the most appropriate meaning of the given idiom.

See eye to eye

- A Stare at someone
- B See clearly
- C Be suspicious
- D Agree with someone

Answer: D

Question 96

Select the most appropriate synonym of the given word.

CORDIAL

- A cold
- B warm
- C hard
- D rude

Answer: B

Question 97

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 they will get married, they will probably settle in Mumbai.

- A If they get married
- B No improvement
- C If they had got married
- D If they will be getting married

Answer: A

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Question 98

Select the most appropriate one word substitution for the given group of words.

To increase the speed

- A Assimilate
- B Exhilarate
- C Activate
- D Accelerate

Answer: D

Question 99

Select the **INCORRECTLY** spelt word.

- A Obscure
- B Omision
- C Opportunity
- D Obsolete

Answer: B

Question 100

Select the most appropriate antonym of the given word.

HASTE

- A Rush
- B Lose
- C Dash
- D Delay

Answer: D

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