



SSC GD 2012 Shift 2

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Instructions

For the following questions answer them individually

Question 1

By how much is $\frac{3}{5}$ th of 75 greater than $\frac{4}{7}$ th of 77?

- A 0
- B 5
- C 1
- D None of these

Answer: C

Explanation:

$$\frac{3}{5} \times 75 = 45$$

$$\frac{4}{7} \times 77 = 44$$

\therefore 45 is greater than 44 by 1

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Question 2

The HCF of two numbers 24 and their LCM is 216. If one of the number is 72, then the other number is

- A 27
- B 72
- C 8
- D 24

Answer: B

Explanation:

Let the number be a and other number = $b = 72$

We know that : $H.C.F.(a, b) \times L.C.M.(a, b) = a \times b$

$$\Rightarrow a \times 72 = 24 \times 216$$

$$\Rightarrow a = \frac{24 \times 216}{72}$$

$$\Rightarrow a = 24 \times 3 = 72$$

\Rightarrow Ans - (B)

Question 3

$\frac{3}{4}$ of $\frac{1}{7}$ of a number 120, then the number

- A 1120
- B 560
- C 280
- D 140

Answer: A

Explanation:

Let the number be 'x'

$$\frac{3}{4} \times \frac{1}{7} \times x = 120$$

$$x = \frac{120 \times 7 \times 4}{3}$$

$$\therefore x = 1120$$

Question 4

In a co-educational secondary school 65% of the students are boys. If there are 224 girls in the school, find the number of boys in the school ?

A 400

B 425

C 416

D None of these

Answer: C

Explanation:

Let total students = $100x$

$$\Rightarrow \% \text{ of girls} = (100 - 65)\% = 35\%$$

According to ques,

$$\Rightarrow \frac{35}{100} \times 100x = 224$$

$$\Rightarrow 35x = 224$$

$$\Rightarrow x = \frac{224}{35} = 6.4$$

$$\therefore \text{Number of boys} = \frac{65}{100} \times 100 \times 6.4$$

$$= 65 \times 6.4 = 416$$

\Rightarrow Ans - (C)

SSC GD Important Questions and Answers PDF

Question 5

A mixture of 30 litres of spirit and water contains 20% of water in it. How much water must be added to it, to make the water 25% in the new mixture ?

A 3 litres

B 2 litres

C 4 litres

D None of these

Answer: B

Explanation:

% water in 30 litres of mixture = 20%

$$\Rightarrow \text{Quantity of water} = \frac{20}{100} \times 30 = 6 \text{ litres}$$

Let x litres of water is added

According to ques,

$$\Rightarrow x + 6 = \frac{25}{100} \times (x + 30)$$

$$\Rightarrow 4x + 24 = x + 30$$

$$\Rightarrow 4x - x = 30 - 24$$

$$\Rightarrow 3x = 6$$

$$\Rightarrow x = \frac{6}{3} = 2$$

\therefore **2 litres** of water must be added to make the water 25% in the new mixture.

\Rightarrow Ans - (B)

Question 6

The ages of x and y are in the ratio 3:1. Fifteen years hence, the ratio will be 2:1. The present ages (in years) are:

A 30, 10

B 45, 15

C 21, 7

D 60, 20

Answer: B

Explanation:

Let the present ages of x and y be $3x$ and x

The ratio between the ages of x and y after 15 years will be 2:1

$$\Rightarrow \frac{3x+15}{x+15} = \frac{2}{1}$$

$$\Rightarrow 3x + 15 = 2x + 30$$

$$\Rightarrow x = 15$$

\therefore Present ages of x and y are 45 and 15 respectively.

Hence, option B is the correct answer.

Question 7

Gold is 19 times as heavy as water and copper is 9 times as heavy as water. In what ratio should these be mixed to get an alloy 15 times as heavy as water ?

A 1 : 1

B 2 : 1

C 1 : 2

D 3 : 2

Answer: D

Explanation:

Gold is 19 times as heavy as water i.e $G = 19W$

Copper is 9 times as heavy as water i.e $C = 9W$

Let both the metals be mixed in the ratio of $A : B$. Then,

$$\frac{A(G)}{A+B} + \frac{B(C)}{A+B} = 15W$$

$$A(19W) + B(9W) = 15W(A + B)$$

$$19A + 9B = 15A + 15B$$

$$4A = 6B$$

$$A : B = 3 : 2$$

Hence, option D is the correct answer.

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Question 8

The average of Rajeev's marks in 7 subjects is 75. His average in six subjects excluding science is 72. How many marks did he get in science ?

- A 72
- B 90
- C 93
- D None of these

Answer: C

Explanation:

Average marks in 7 subjects = 75

=> Total marks in 7 subjects = $75 \times 7 = 525$

Similarly, total marks in 6 subjects excluding Science = $72 \times 6 = 432$

\therefore Marks scored in Science = $525 - 432 = 93$

=> Ans - (C)

Question 9

If 75% a number is added to 75, the result is the number itself. Then the number is

- A 400
- B 300
- C 60
- D 50

Answer: B

Explanation:

Let the number be $100x$

According to ques,

$$\Rightarrow \left(\frac{75}{100} \times 100x\right) + 75 = 100x$$

$$\Rightarrow 75x + 75 = 100x$$

$$\Rightarrow 100x - 75x = 25x = 75$$

$$\Rightarrow x = \frac{75}{25} = 3$$

\therefore Number = $100 \times 3 = 300$

=> Ans - (B)

Question 10

If a sum of money doubles itself in 8 years at simple interest, the rate percent per annum is

- A 11.5
- B 12
- C 12.5
- D 13

Answer: C

Explanation:

Let principal sum = Rs. P and rate of interest = $r\%$

Amount under simple interest after 8 years = $P + \frac{P \times R \times T}{100}$

$$\Rightarrow P + \left(\frac{P \times r \times 8}{100} \right) = 2P$$

$$\Rightarrow \frac{P \times 8r}{100} = 2P - P = P$$

$$\Rightarrow r = \frac{100}{8} = 12.5\%$$

\Rightarrow Ans - (C)

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Question 11

If 18 binders bind 900 books in 10 days, how many binders will be required to bind 660 books in 12 days ?

- A 22
- B 14
- C 13
- D 11

Answer: D

Explanation:

As per the given question equation can be written as,

$$\Rightarrow \frac{900}{10 \times 18} = \frac{660}{12 \times x}$$

$$\Rightarrow 5x = 55$$

$$\Rightarrow x = 11$$

Hence, option D is the correct answer.

Question 12

The largest four digit number which is a perfect cube, is

- A 9999
- B 9261
- C 8000
- D None

Answer: B

Explanation:

9999 is the largest 4 digit number and $(20)^3 = 8000$

This means that the closest cube root of the largest perfect cube is most likely 21. So $(21)^3 = 9261$ is the largest perfect cube of four digits.

=> Ans - (B)

Question 13

The difference between a two-digit number and the number obtained by interchanging the digits is 27. What is the differences between the digits of the number ?

- A 3
- B 5
- C 6
- D Can't be determined

Answer: A

Explanation:

Let the unit's digit of the number be y and ten's digit = x

=> Number = $10x + y$

After interchanging the digits, new number = $10y + x$

According to ques,

$$\Rightarrow (10x + y) - (10y + x) = 27$$

$$\Rightarrow 9x - 9y = 27$$

$$\Rightarrow 9(x - y) = 27$$

$$\Rightarrow (x - y) = \frac{27}{9} = 3$$

∴ Differences between the digits of the number = 3

=> Ans - (A)

[SSC CPO Previous Question papers \(download pdf\)](#)

Question 14

A mixture of 70 litres of wine and water contains 10% water. How much water must be added to make water 12 and half% of the total mixture ?

- A 2 litres
- B 10 litres
- C 12 litres
- D 4 litres

Answer: A

Explanation:

% water in 70 litres of mixture = 10%

$$\Rightarrow \text{Quantity of water} = \frac{10}{100} \times 70 = 7 \text{ litres}$$

Let x litres of water is added

According to ques,

$$\Rightarrow x + 7 = \frac{12.5}{100} \times (x + 70)$$

$$\Rightarrow 8x + 56 = x + 70$$

$$\Rightarrow 8x - x = 70 - 56$$

$$\Rightarrow 7x = 14$$

$$\Rightarrow x = \frac{14}{7} = 2$$

\therefore 2 litres of water must be added to make the water 12.5% in the new mixture.

\Rightarrow Ans - (A)

Question 15

A train of length 150m takes 40.5 seconds to cross a tunnel of length 300m. The speed of the train (in km/hr) is

A 40

B $26\frac{2}{3}$

C $13\frac{1}{3}$

D 48

Answer: A

Explanation:

Total distance travelled by train = 150m+300m = 450 metres

Total time = 40.5 sec

$$\text{Speed of train} = \frac{450}{40.5} \text{ m/sec}$$

$$= \frac{100}{9} \text{ m/sec}$$

$$\text{Speed of train in km/hr} = \frac{100}{9} \times \frac{18}{5}$$

$$= 40 \text{ km/hr}$$

Question 16

The value of $\sqrt{2\sqrt[3]{4}\sqrt{2\sqrt[3]{4}\sqrt{2\sqrt[3]{4}}}\dots}$ is

A $2\sqrt[3]{4}$

B $\sqrt{2\sqrt[3]{4}}$

C $2\sqrt{4}$

D $\sqrt[3]{4}$

Answer: A

Explanation:

$$\text{To find : } y = \sqrt{2\sqrt[3]{4}\sqrt{2\sqrt[3]{4}\sqrt{2\sqrt[3]{4}}}\dots}$$

$$\text{Let } 2\sqrt[3]{4} = x$$

$$\Rightarrow y = \sqrt{(x) \times (\sqrt{x}) \times (\sqrt[3]{x}) \times \dots}$$

$$\Rightarrow y^2 = (x)^{[1+\frac{1}{2}+\frac{1}{4}+\dots+\infty]}$$

Now, sum of infinite G.P. = $\frac{a}{1-r}$, where first term = $a = 1$ and common ratio = $r = \frac{1}{2}$

$$\Rightarrow y^2 = (x)^{1-2}$$

$$\Rightarrow y^2 = (x)^2$$

$$\Rightarrow y = x$$

$$\therefore \sqrt{2\sqrt[3]{4}\sqrt{2\sqrt[3]{4}\sqrt{2\sqrt[3]{4}}}\dots} = 2\sqrt[3]{4}$$

\Rightarrow Ans - (A)

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Question 17

The value of $\frac{3\sqrt{2}}{(\sqrt{3}+\sqrt{6})} - \frac{4\sqrt{3}}{(\sqrt{6}+\sqrt{2})} + \frac{\sqrt{6}}{(\sqrt{2}+\sqrt{3})}$ is

A $\sqrt{2}$

B 0

C $\sqrt{3}$

D $\sqrt{6}$

Answer: B

Explanation:

$$\frac{3\sqrt{2}}{(\sqrt{3}+\sqrt{6})} - \frac{4\sqrt{3}}{(\sqrt{6}+\sqrt{2})} + \frac{\sqrt{6}}{(\sqrt{2}+\sqrt{3})}$$

$$= \frac{6\sqrt{6}+18+6\sqrt{2}+6\sqrt{3}-(12\sqrt{2}+24+12\sqrt{3}+12\sqrt{6})+6\sqrt{3}+6+6\sqrt{6}+6\sqrt{2}}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{2}+\sqrt{3})}$$

$$= \frac{6\sqrt{6}+18+6\sqrt{2}+6\sqrt{3}-12\sqrt{2}-24-12\sqrt{3}-12\sqrt{6}+6\sqrt{3}+6+6\sqrt{6}+6\sqrt{2}}{(\sqrt{3}+\sqrt{6})(\sqrt{6}+\sqrt{2})(\sqrt{2}+\sqrt{3})}$$

$$= 0$$

Question 18

If $a^2 + b^2 + c^2 = 2(a-b-c)-3$, then the value of $4a - 3b + 5c$ is

A 2

B 3

C 5

D 6

Answer: A

Explanation:

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

We can write the above equation as

$$a^2 - 2a + 1 + b^2 + 2b + 1 + c^2 + 2c + 1 = 0$$

$$\Rightarrow (a - 1)^2 + (b + 1)^2 + (c + 1)^2 = 0$$

$$(a - 1)^2 = 0 \Rightarrow a = 1$$

$$(b + 1)^2 = 0 \Rightarrow b = -1$$

$$(c + 1)^2 = 0 \Rightarrow c = -1$$

$$4a - 3b + 5c = 4(1) - 3(-1) + 5(-1) = 4 + 3 - 5 = 2$$

Question 19

If $2x + \frac{2}{x} = 3$ then the value of $x^3 + \frac{1}{x^3} + 2$ is

- A $-\frac{9}{8}$
- B $-\frac{25}{8}$
- C $\frac{7}{8}$
- D 11

Answer: C

Explanation:

Given $2x + \frac{1}{x} = 3$

$$2\left(x + \frac{1}{x}\right) = 3$$

$$\Rightarrow x + \frac{1}{x} = \frac{3}{2}$$

Cubing on both sides

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

$$x^3 + \frac{1}{x^3} + 3 \times x \times \frac{1}{x} \left(x + \frac{1}{x}\right) = \frac{27}{8}$$

$$\Rightarrow x^3 + \frac{1}{x^3} + 3\left(\frac{3}{2}\right) = \frac{27}{8}$$

$$\Rightarrow x^3 + \frac{1}{x^3} = \frac{27}{8} - \frac{9}{2} = \frac{-9}{8}$$

$$x^3 + \frac{1}{x^3} + 2 = \frac{-9}{8} + 2 = \frac{7}{8}$$

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Question 20

Out of the given responses, one of the factors of $(a^2 - b^2)^3 + (b^2 - c^2)^3 + (c^2 - a^2)^3$ is

- A $(a + b)(a - b)$
- B $(a + b)(a + b)$
- C $(a - b)(a - b)$
- D $(b - c)(b - c)$

Answer: A

Explanation:

Let, $X = a^2 - b^2, Y = b^2 - c^2, Z = c^2 - a^2$

Then, $X + Y + Z = 0$ (i.e. $a^2 - b^2 + b^2 - c^2 + c^2 - a^2 = 0$)

We know that,

$$X^3 + Y^3 + Z^3 = 3XYZ \text{ i.e.}$$

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

One of the factors is,

$$a^2 - b^2 \text{ (or)} (a + b)(a - b)$$

Hence, option A is the correct answer.

Question 21

If $X = \sqrt[3]{5} + 2$, then the value of $x^3 - 6x^2 + 12x - 13$ is

- A -1
- B 1
- C 2
- D 0

Answer: D

Explanation:

Given $x = \sqrt[3]{5} + 2$

$$\begin{aligned} & x^3 - 6x^2 + 12x - 13 \\ &= (\sqrt[3]{5} + 2)^3 - 6(\sqrt[3]{5} + 2)^2 + 12(\sqrt[3]{5} + 2) - 13 \\ &= (5 + 8 + 6 \times 5^{\frac{2}{3}} + 12 \times 5^{\frac{1}{3}}) - 6[5^{\frac{1}{3}} + 4 + 4 \times 5^{\frac{1}{3}}] + 12(5^{\frac{1}{3}} + 2) - 13 \\ &= 13 + 6 \times 5^{\frac{2}{3}} + 12 \times 5^{\frac{1}{3}} - 6 \times 5^{\frac{2}{3}} - 24 - 24 \times 5^{\frac{1}{3}} + 12 \times 5^{\frac{1}{3}} + 24 - 13 \\ &= 0 \end{aligned}$$

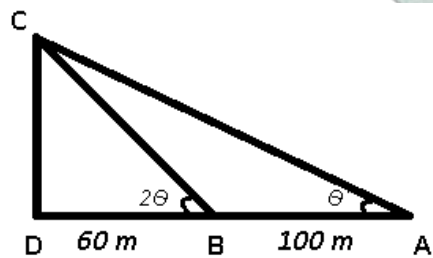
Question 22

A tower standing on a horizontal plane subtends a certain angle at a point 160 m apart from the foot of the tower. On advancing 100 m towards it, the tower is found to subtend an angle twice as before. The height of the tower is

- A 80 m
- B 100 m
- C 160 m
- D 200 m

Answer: A

Explanation:



Given : CD is the tower, AD = 160 m and AB = 100 m

$$\Rightarrow BD = 160 - 100 = 60 \text{ m}$$

To find : CD = h = ?

Solution : $\angle DBC = 2\theta$ and $\angle DAC = \theta$

In $\triangle ACD$,

$$\Rightarrow \tan(\theta) = \frac{CD}{DA}$$

$$\Rightarrow \tan(\theta) = \frac{h}{160} \text{ -----(i)}$$

Similarly, in $\triangle BCD$,

$$\Rightarrow \tan(2\theta) = \frac{CD}{DB}$$

$$\Rightarrow \tan(2\theta) = \frac{h}{60}$$

$$\Rightarrow \frac{2\tan\theta}{1-\tan^2\theta} = \frac{h}{60}$$

Substituting value from equation (i), we get :

$$\Rightarrow 2 \times \frac{h}{60} = [1 - (\frac{h}{60})^2] \times (\frac{h}{60})$$

$$\Rightarrow \frac{60}{80} = 1 - (\frac{h}{60})^2$$

$$\Rightarrow (\frac{h}{60})^2 = 1 - \frac{3}{4} = \frac{1}{4}$$

$$\Rightarrow \frac{h}{60} = \sqrt{\frac{1}{4}} = \frac{1}{2}$$

$$\Rightarrow h = \frac{60}{2} = 30$$

∴ Height of tower is **30 m**

⇒ Ans - (A)

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Question 23

$\angle A, \angle B, \angle C$ are three angles of a triangle. If $\angle A - \angle B = 15^\circ, \angle B - \angle C = 30^\circ$, then $\angle A, \angle B$ and $\angle C$ are

A $80^\circ, 60^\circ, 40^\circ$

B $70^\circ, 50^\circ, 60^\circ$

C $80^\circ, 65^\circ, 35^\circ$

D $80^\circ, 55^\circ, 45^\circ$

Answer: C

Explanation:

Given $\angle A - \angle B = 15^\circ \rightarrow (1)$

$$\angle B - \angle C = 30^\circ \rightarrow (2)$$

From equation (1), $\angle B = \angle A - 15^\circ$

Substituting $\angle B$ value in equation (2)

$$(\angle A - 15^\circ) - \angle C = 30^\circ$$

$$\Rightarrow \angle C = \angle A - 45^\circ$$

We know that $\angle A + \angle B + \angle C = 180^\circ$

Substituting $\angle A, \angle B, \angle C$ values in above equation

$$\angle A + (\angle A - 15^\circ) + (\angle A - 45^\circ) = 180^\circ$$

$$\Rightarrow 3\angle A = 240^\circ$$

$$\angle A = 80^\circ$$

Substituting $\angle A$ value in equation (1)

$$80^\circ - \angle B = 15^\circ$$

$$\Rightarrow \angle B = 65^\circ$$

Substituting $\angle B$ in equation (2)

$$65^\circ - \angle C = 30^\circ$$

$$\Rightarrow \angle C = 35^\circ$$

$$\therefore \angle A = 80^\circ, \angle B = 65^\circ, \angle C = 35^\circ$$

Question 24

If ABC is an equilateral triangle and D is a point on BC such that $AD \perp BC$, then

- A AB : BD = 1 : 1
- B AB : BD = 1 : 2
- C AB : BD = 2 : 1
- D AB : BD = 3 : 2

Answer: C

Explanation:

Let each side of the triangle be 'x'

$AD \perp BC \Rightarrow$ 'D' is midpoint of BC

$$BD=DC=\frac{x}{2}$$

then $AD:BD=x:\frac{x}{2}=2:1$

Question 25

$\sin A + \sin^2 A = 1$, then the value of $\cos^2 A + \cos^4 A$ is

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

Answer: D

Explanation:

Given $\sin A + \sin^2 A = 1$

$$\Rightarrow \sin A = 1 - \sin^2 A$$

$$\Rightarrow \sin A = \cos^2 A (\because \cos^2 A + \sin^2 A = 1)$$

$$\cos^2 A = \sin A \Rightarrow \cos^4 A = \sin^2 A$$

$$\therefore \cos^2 A + \cos^4 A = 1 (\because \sin A + \sin^2 A = 1)$$

SSC Stenographer Previous Papers (Download PDF)

Reasoning

Instructions

In each of the following questions, select the related word/number from the given alternatives.

Question 26

Psychology : Mind :: Arithmetic : ?

- A Knowledge
- B Number
- C Height
- D Formulas

Answer: B

Explanation:

The study of human mind and its functions is referred as 'Psychology' and

Branch of mathematics dealing with study of numbers is referred as 'Arithmetics'

Hence, option B is the correct answer.

SSC GD Constable Previous Papers

Question 27

Ice : Coldness :: Earth : ?

- A Weight
- B Jungle
- C Gravitation
- D Sea

Answer: C

Explanation:

Coldness is the property of Ice whereas Gravity is the property of Earth.

Hence, option C is the correct answer.

Question 28

Teacher : School :: Nurse : ?

- A Doctors
- B Patients
- C Medicine
- D Hospitals

Answer: D

Explanation:

Teacher is the person who teaches students in school whereas Nurse is the one who works in hospitals.

Hence, option D is the correct answer.

Question 29

11 : 1331 :: 9 : ?

- A 979
- B 991
- C 729
- D 879

Answer: C

Explanation:

The pattern followed here is,

$$11^3 = 1331 \text{ likewise,}$$

$$9^3 = 729.$$

Hence, option C is the correct answer.

SSC MTS Previous Papers (DOWNLOAD PDF)

Question 30

Window : Carpenter :: Statue : ?

- A Sculptor
- B Mason
- C Blacksmith
- D Goldsmith

Answer: A

Explanation:

Carpenter is the one who makes a window and sculptor is the one who makes a statue.

Hence, option A is the correct answer.

Instructions

In each of the following questions, find the odd number/letters from the given alternatives.

Question 31

- A XWVU
- B SRQP
- C NMLK
- D EDCA

Answer: D

Explanation:

Except in option D other options are in sequence.

Hence, option D is the correct answer.

Question 32

- A 24
- B 56
- C 84
- D 94

Answer: D

Explanation:

Every number except 94 is divisible by '4'

Hence, option D is the correct answer.

SSC GD Constable Previous Papers (DOWNLOAD PDF)

Instructions

For the following questions answer them individually

Question 33

Which of the given responses would be a meaningful order of the following in ascending order ?

- A. 0640 hrs
- B. 1930 hrs
- C. 1335 hrs
- D. 2000 hrs

Answer:d

Question 34

Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

B_f_ _ _ ndfg _

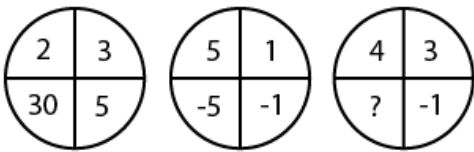
- A dgggb
- B dgbg
- C bgdgg
- D gdggb

Answer: D

Instructions

In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

Question 35



- A 7
- B -12
- C 12
- D 9

Answer: B

Explanation:

The pattern followed here is,

$$2 \times 3 \times 5 = 30,$$

$$5 \times 1 \times -1 = -5,$$

$$4 \times 3 \times -1 = -12$$

(i.e all the 3 numbers are multiplied)

Hence, option B is the correct answer.

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 36

50, 65, 82, ?, 122

- A 101
- B 97
- C 105
- D 100

Answer: A

Explanation:

The pattern followed here is,

$$50 + 15 = 65,$$

$$65 + 17 = 82,$$

$$82 + 19 = 101,$$

$$101 + 21 = 122.$$

Hence, option A is the correct answer.

Instructions

For the following questions answer them individually

Question 37

In a group of 20 people, 8 read Hindi, 11 read English while 5 of them read none of these two. How many of them read Hindi and English both ?

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

Answer: C

Explanation:

Given,

$$n(h) = 8, n(e) = 11, n(e \cup h) = 20 - 5 = 15 \dots (1)$$

Where, $n(h)$ = number of people who can read Hindi,

$n(e)$ = number of people who can read English

$n(e \cup h)$ = Total number of people who can read both English and Hindi

$$n(e \cap h) = n(e) + n(h) - n(e \cup h) \dots (2)$$

Substitute equation (1) in (2)

$$n(e \cap h) = 8 + 11 - 15 = 4$$

Hence, option C is the correct answer.

Question 38

Unscramble the following letters to frame a meaningful word and find out the correct numerical sequence of the letters.

RESTAURANT

1 2 3 4 5 6 7 8 9 10

- A 10 2 3 5 16 4 7 8 9
- B 3 1 2 4 5 7 6 9 8 10

C 1 3 5 2 9 4 8 6 7 10

D 9 1 3 6 2 7 5 4 8 10

Answer: B

SSC CGL Free Mock Test (Latest Pattern)

Question 39

If 'DICTIONARY' is coded as 5479482361, then 'YARD' can be coded as ?

A 1653

B 1635

C 1536

D 1365

Answer: D

Explanation:

In the given code language, alphabets are directly related to the numbers on the right.

D = 5 ; I = 4 ; C = 7 ; T = 9 ; O = 8 ; N = 2 ; A = 3 ; R = 6 ; Y = 1.

Hence, code for YARD is '1365'

Hence, option D is the correct answer.

Question 40

In a row of students Ganesh is 7th from one extreme and 11th from the other. Find the total numbers of students in the row.

A 17

B 18

C 19

D 20

Answer: A

Explanation:

As Ganesh is 7th from one extreme end (say left end), number of students to his left will be '6' and also,

He is 11th from other end (say right end), number of students to his right will be '10'.

Total number of students = $6 + 1 + 10 = 17$.

Hence, option A is the correct answer.

Question 41

Find the correct answer for the unsolved equation

$5 \times 6 \times 3 = 356$, $1 \times 0 \times 5 = 510$, $5 \times 6 \times 7 = ?$

A 567

B 657

C 210

D 756

Answer: D

Explanation:

Last digit is kept at first, first digit is kept at second, second digit is kept at last.

Code for 5 x 6 x 7 will be '756'

Hence, option D is the correct answer.

SSC CHSL Free Mock Test (Latest Pattern)

Question 42

A, B, C and D are playing a game of carrom. A, C and B, D are partners. C is to the left of D who is facing South. Then A is facing

A North

B South

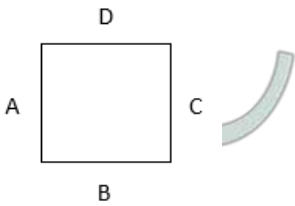
C East

D West

Answer: C

Explanation:

As per the given question, final arrangement will be-

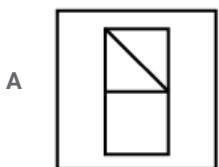
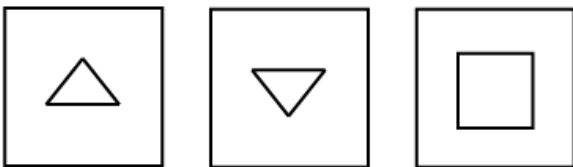


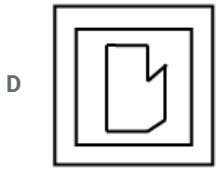
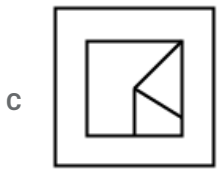
A is facing towards East in the above arrangement.

Hence, option C is the correct answer.

Question 43

Select the answer figure in which the question figures are hidden / embedded.

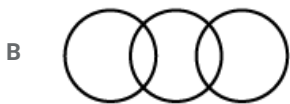
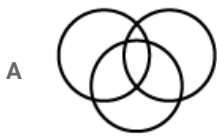




Answer: A

Question 44

Which of the following diagram best depicts the relationship between student, college and school ?



Answer: B

Explanation:

A student can be in a school or in a college but not in both at the same time.

Hence, option B is the correct answer.

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Question 45

Statement is given followed by three conclusions I, II and III. You have to consider the statement to be true even they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statement.

Statement: Comic books contain pictures

Conclusions:

- I. All books contain pictures
- II. Books may or may not contain pictures
- III. Books other than the comic books does not contain pictures.

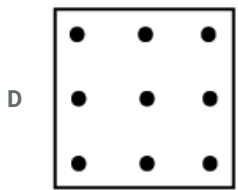
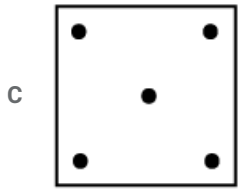
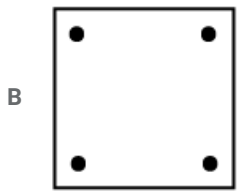
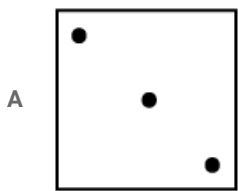
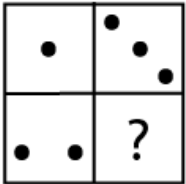
A Only Conclusion I follows

- B Only Conclusion II follows
- C Both Conclusions I and II follows
- D Neither Conclusion follows

Answer: B

Question 46

Which one of the answer figure shall complete the given question figure ?



Answer: B

Explanation:

The first diagram has only one dot. Second diagram which is below it, has two dots. Third diagram has three dots.

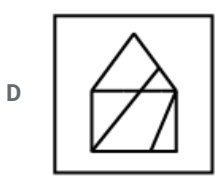
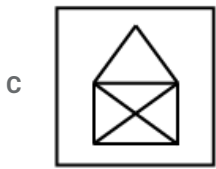
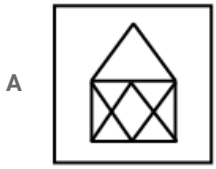
Following the same pattern, fourth diagram must contain four dots in it.

Hence, option B is the correct answer.

Question 47

From the given answer figures, select the one in which the question figure is hidden / embedded



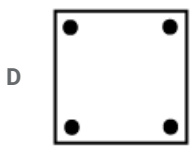
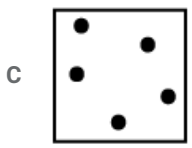
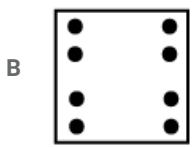
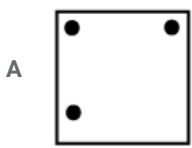
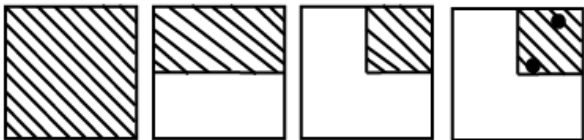


Answer: B

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Question 48

A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



Answer: B

Question 49

Which of the answer figures is the right images of the given figure ?

P R A Y E R

A R E Y A R P

B R E A P E R

C R Y A E R P

D R P A Y E R

Answer: C

Explanation:

Word : P R A Y E R

In the image of the word, the letters will swap position, i.e. first letter will come at end, second at second last and so on, thus first and last options are not possible. Also, direction of the letters will also be reversed.

=> Ans - (C)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The set of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The column and rows of Matrix - I are numbered from 0 to 4 and that of Matrix - II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 01, 13 etc., and 'S' can be represented by 55, 67 etc. Similarly, you have to identify the set for the letters given.

MATRIX-I

	0	1	2	3	4
0	P	A	I	V	R
1	I	P	R	A	V
2	A	R	V	P	I
3	V	I	P	R	A
4	R	V	A	I	P

MATRIX-II

	5	6	7	8	9
5	S	L	K	M	E
6	K	M	S	E	L
7	M	E	L	K	S
8	L	K	E	S	M
9	E	S	M	L	K

A 65, 23, 14, 55

B 86, 34, 42, 69

C 78, 41, 23, 86

D 57, 11, 33, 96

Answer: D

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General Awareness

Instructions

For the following questions answer them individually

Question 51

Earthquakes are caused by ?

- A Tectonism
- B Denudation
- C Earth's revolution
- D Earth's rotation

Answer: A

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Question 52

When the days and nights are equal, the rays of the sun directly fall on the ?

- A Equator
- B Tropic of Cancer
- C South Pole
- D North Pole

Answer: B

Question 53

Which of the following rivers crosses the equator twice ?

- A Amazon
- B Nile
- C Congo
- D Orinoco

Answer: C

Question 54

Who discovered the sea route to India?

- A Vascoda Gama in 1498
- B Columbus in 1402
- C Magellan in 1506
- D Sir Hopkins in 1698

Answer: A

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Question 55

Who wrote As you like ?

- A Bernard Shaw
- B Shakespear
- C Leotolstoy
- D Mulk Raj Anand

Answer: B

Question 56

Who were the three statesmen who formulated NAM ?

- A Tito, Nasser and Bhutto
- B Nehru, Nasser and Tito
- C Nasser, Tito and Nehru
- D Nehru, Chouen-Lai and Bhutto

Answer: A

Question 57

UNESCO stands for ?

- A United Nations Ecological Science Co-operation
- B Union of National Educational Scientific and Cultural Organisation
- C United Nations Educational Scientific and Cultural Organisation
- D None of these

Answer: C

Question 58

The greatest painter of birds at Jahangir's court was ?

- A Khwaja Abdus Samad
- B Syed Ali Tabrizi
- C Basawan
- D Mansur

Answer: D

Question 59

Huen-tsang found Jainism flourishing in ?

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- A Orissa
- B Kashmir
- C Bengal
- D Bihar

Answer: C

Question 60

'Swaraj is my birth right and I shall have it". This was advocated by ?

- A Lala Lajpat Rai
- B Lokmanya Tilak
- C Mahatma Gandhi
- D Sardar Patel

Answer: B

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Question 61

1st partition of Bengal under Lord Curzon took place in ?

- A 1901
- B 1915
- C 1905
- D 1907

Answer: C

Question 62

Who proposed the chemical evolution of life ?

- A Darwin
- B Lammarck
- C Oparin
- D Haechel

Answer: C

Question 63

Water has Maximum density at ?

- A Latex1
- B Latex2

C Latex3

D Latex4

Answer: B

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Question 64

Which of the following chemicals is used in photograph ?

A Aluminium hydroxide

B Silver bromide

C Potassium nitrate

D Sodium chloride

Answer: B

Question 65

Human blood contains - percentage of plasma ?

A 35%

B 40%

C 50%

D 55%

Answer: D

Question 66

Rickets is a disease of the ?

A bones

B tissue

C muscles

D blood

Answer: A

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Question 67

Trachoma is disease of the ?

A Liver

B Eyes

C Lungs

D Kidneys

Answer: B

Question 68

Who is regarded as the architect of the Indian Constitution ?

A B.N. Rao

B Dr B.R. Ambedkar

C N.G. Ayyangar

D Dr Rajendra Prasad

Answer: B

Question 69

What is the salary of the Chief Justice of India ?

A ₹1,60,000

B ₹80,000

C ₹1,00,000

D ₹75,000

Answer: B

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Question 70

How many states in India have two Houses, Viz., Legislative Assembly and Legislative Council ?

A 6

B 8

C 5

D 10

Answer: A

Question 71

The words 'Socialist' and Secular' were added to the Preamble of the Constitution of India by the__Constitution Amendment Act 1976 ?

A 44th

B 42nd

C 32nd

D 9th

Answer: B

Question 72

The typical area of 'sal' forest in the Indian Peninsular upland occurs ?

- A on the Western Ghats
- B between the Tapti and the Narmada
- C to the north-east of the Godavari
- D on the Malwa Plateau

Answer: A

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Question 73

Which coloured ring represents the Asian Continent in the Olympics Emblem ?

- A Blue
- B Yello
- C Red
- D Green

Answer: B

Question 74

The first Indian to share the Oscar Award was ?

- A Hargobind Khorana
- B Rabindranath Tagore
- C Bhanu Athaiya
- D None of these

Answer: C

Question 75

The headquarters of Asian Development Bank is located in which of the following cities ?

- A Jakarta
- B Singapore
- C Bangkok
- D Manila

Answer: D

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English

Instructions

Some parts of the sentences have errors and some have none. Find out which part of a sentence has an error, the appropriate letter (1, 2, 3). If a sentence is free error, (4) is the Answer Sheet.

Question 76

- A Either he
- B or his wife
- C are coming to attend the dinner
- D No error

Answer: C

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Question 77

- A The launch of the first artificial satellite by the Russians
- B took the world almost entirely unawares
- C and provocation flood of speculations about its significances
- D No error

Answer: B

Instructions

Sentence are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four and indicate it in the Answer Sheet.

Question 78

.....the rain forests is very important, if we do not want the flora and fauna found there to become extinct.

- A Reserving
- B Destroying
- C Preserving
- D Maintaining

Answer: C

Question 79

If I, had helped him, he.....

- A will not be drowned
- B would not be drowned
- C will not have drowned
- D would not have drowned

Answer: D

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Question 80

When will you hand.....your assignment ?

- A in
- B back
- C down
- D into

Answer: A

Instructions

Out of the alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer Sheet.

Question 81

INTREPID

- A hesitant
- B fearless
- C extrovert
- D rash

Answer: B

Question 82

PRODIGAL

- A exclusive
- B productive
- C lavish
- D carefree

Answer: C

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Question 83

PERSPICUOUS

- A relevant
- B precise
- C brief
- D clear

Answer: D

Instructions

In questions choose the word opposite in meaning to the given word and mark it in the Answer Sheet.

Question 84

ELEVATION

- A reduction
- B humiliation
- C depression
- D debasement

Answer: C

Question 85

GLOSSY

- A dull
- B shining
- C weary
- D tired

Answer: A

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Question 86

APPROPRIATE

- A dissimilar
- B incomparable
- C unsuitable
- D disparate

Answer: C

Instructions

Four alternatives are given for the idiom/phrase underlined in the sentences. Choose the alternative which best expresses the meaning of the idiom/phrase and mark it in the Answer Sheet.

Question 87

To take someone for a ride

- A to give a ride to someone
- B to deceive someone
- C to be indifferent
- D to disclose a secret

Answer: B

Question 88

To move heaven and earth

- A to cause an earthquake
- B to try everything possible
- C to pray to all gods
- D to travel in a rocket

Answer: B

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Question 89

To smell a rat

- A to smell foul
- B to see a rat
- C to chase a rat
- D to be suspicious

Answer: D

Instructions

A part of the sentence is underlined. Below are given alternatives to the underlined part at 1, 2, and 3 which may improve the sentence. Choose the correct alternatives. In case no improvement is needed, your answer is 4.

Question 90

The courtiers used to tell the King how efficient an administrator he was all day long.

- A The courtiers all day long used to tell the King how, efficient an administrator he was
- B The courtiers and used all day long to tell the King how efficient an administrator he was
- C The courtiers used to tell the King all day long how efficient an administrator he was
- D No improvement

Answer: C

Question 91

Every Saturday I go out for shopping

- A for shops
- B to shopping
- C for shop
- D No improvement

Answer: D

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Question 92

We had a grand party and we enjoyed very much.

- A We had a grand party and enjoyed very much
- B We had a grand party to enjoy very much
- C We had a grand party and we enjoyed ourselves
- D No improvement

Answer: C

Instructions

Out of the four alternatives, choose the one which can be substituted for the given words/sentence.

Question 93

Release of prisoner from jail on certain terms and conditions.

- A Parole
- B Parley
- C Pardon
- D Acquittal

Answer: A

Question 94

Loss of memory

- A Ambrosia
- B Amnesia
- C Insomnia
- D Forgetting

Answer: B

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Question 95

To struggle helplessly

- A Flounder
- B Founder
- C Fumble
- D Finger

Answer: A

Instructions

The animal mind is like a telephone exchange, it receives stimuli from outside through the sense organs and sends out appropriate responses through the nerves that govern muscles, glands and other parts of the body. The organism is constantly interacting with its surroundings receiving messages and acting on the new state of affairs that the messages signify.

But the human mind is not a simple transmitter like a telephone exchange. It is more like a great projector; for instead of merely mediating between an event in the outer world and a creature's responsive action, it transforms or, if you will, distorts the event into an image to be looked at, retained and contemplated. For the images of things we remember are not exact and faithful transcriptions even of our actual sense impressions. They are made as much by what we think as by what we see. It is a well-known fact that if you ask several people the size of moon's disk as they look at it, their estimates will vary from the area of a dime to that of a barrel top. Like a magic lantern, the mind projects its ideas of things on the screen of what we call 'memory': but like all projections, these ideas are transformations of actual things. They are in fact, symbols of reality, not pieces of it.

Question 96

An animal mind and a human mind differ like

- A a telephone exchange and a projector
- B a screen and an image
- C a lantern and a candle
- D projections and illusions

Answer: A

Question 97

Human memory is subject to

- A thought and visual impression
- B thought and reasoning
- C fancy and fantasy
- D nothing but hard training

Answer: A

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Instructions

In each of the following Questions, a sentence has been given in Active/passive voice out of the four Alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

Question 98

A good deal of money will be made by the investment.

- A That investment has made a good deal of money
- B That investment will be making a good deal of money
- C That investment had been making a good deal of money
- D That investment has been making a good deal of money

Answer: D

Question 99

Who will help me ?

- A By whom I shall be helped ?
- B By whom will be I helped ?
- C By whom would I be helped ?
- D By whom I will be helped ?

Answer: B

Question 100

In the following Questions, four words are given, out of which only one words is correctly spelt find the correctly spelt word.

- A vaccum
- B vacuum
- C vacum
- D vaccuum

Answer: B

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