



## 2017 SSC CGL 12 Aug Shift-3

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# General Awareness

## Instructions

For the following questions answer them individually

### Question 1

Which of the following is called GDP Deflator?

- A Ratio of nominal to real GDP
- B Ratio of nominal to real GNP
- C Ratio of nominal to real CPI
- D Ratio of real to nominal GNP

Answer: A

## SSC CGL Free Mock Test

### Question 2

Which organisation monitors the banks in actually maintaining cash balance?

- A State Bank of India
- B Reserve Bank of India
- C Grameen Bank of India
- D None of these

Answer: B

### Question 3

Which Country doesn't have a written Constitution?

- A United Kingdom
- B Australia
- C United States of America
- D Bangladesh

Answer: A

### Question 4

In the Indian Parliamentary System, 'Vote on Account' is valid for how many months (except the year of elections)?

- A 2 months
- B 3 months
- C 6 months
- D 9 months

Answer: A

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### Question 5

Takshashila University was located between which two rivers?

- A Indus and Jhelum
- B Jhelum and Ravi
- C Beas and Indus
- D Satluj and Indus

Answer: A

### Question 6

Who is the most prominent god of 'Rig Veda'?

- A Indra
- B Agni
- C Pashupati
- D Vishnu

Answer: A

### Question 7

Which Indian state has the largest share of the Wastelands in India?

- A Gujarat
- B Andhra Pradesh
- C Madhya Pradesh
- D Rajasthan

Answer: D

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 8

Which is the highest peak in Andaman and Nicobar islands?

- A Mount Koya
- B Mount Diavolo
- C Saddle Peak
- D Mount Thuiller

Answer: C

**Question 9**

How does a Unicellular Organism reproduce?

- A Cell division
- B Cell reproduction
- C Cell synthesis
- D Fragmentation

**Answer: A**

**Question 10**

What is the full form of DNA?

- A Diribo nucleic acid
- B Di nucleic acid
- C Dual nitrogen acid
- D Deoxyribonucleic acid

**Answer: D**

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**Question 11**

Which among the following is/are female hormones?

- (i) Estrogen
- (ii) Progesterone
- (iii) Testosterone

- A (i) and (iii)
- B (i) and (ii)
- C (ii) and (iii)
- D Only (iii)

**Answer: B**

**Question 12**

For which of the following game, players must have the knowledge of Pascal's law?

- A Climbing
- B Paragliding
- C Rafting
- D Scuba diving

**Answer: D**

**Question 13**

What is the value of the Least Distance of Distinct vision (in cm) for a normal human being?

- A 2.5
- B 25
- C 58
- D 60

**Answer: B**

**SSC CGL Tier-2 Previous Papers PDF**

**Question 14**

What is the full form of ISDN?

- A International Service Digital network
- B Indian Service Digital Network
- C Integrated Service Digital Network
- D Internal Service Digital Network

**Answer: C**

**Question 15**

Which is used to treat Indigestion?

- A Antacid
- B Antiseptic
- C Analgesic
- D Antibiotic

**Answer: A**

**Question 16**

Which of the following cannot be beaten into Sheets?

- A Gold
- B Silver
- C Potassium
- D Aluminum

**Answer: C**

**SSC CGL Important Questions PDF**

**Question 17**

Minamata disease is a nervous disorder caused by eating fish, polluted with \_\_\_\_ .

- A Iron
- B Mercury
- C Lead
- D Nickel

**Answer: B**

**Question 18**

Mahila Police volunteer scheme to be implemented in all states of the country has been launched on pilot basis firstly in which state?

- A Delhi
- B Gujrat
- C Haryana
- D Rajasthan

**Answer: C**

**Question 19**

Who invented the Centigrade scale?

- A Anders Celsius
- B Daniel Gabriel Fahrenheit
- C William Thomson
- D Wright Brothers

**Answer: A**

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**Question 20**

Match the following.

**Trophy / Cup**

1. Irani Trophy
2. Santosh Trophy
3. Azlan Shah Trophy

**Sport**

- a. Football
- b. Cricket
- c. Hockey

- A 1-b, 2-c, 3-a
- B 1-b, 2-a, 3-c
- C 1-a, 2-c, 3-b
- D 1-a, 2-b, 3-c

**Answer: B**

**Question 21**

Jallikattu practiced in Tamil Nadu is a part of which festival?

- A Onam
- B Pongal
- C Natuanjali
- D Hampi

**Answer: B**

**Question 22**

Who among the following was NOT one of the recipients of Major Dhyan Chand Lifetime Achievement Award for the year 2016?

- A Rajendra Pralhad Shelke
- B Sylvanus Dung Dung
- C Sathi Geetha
- D Amit Kumar

**Answer: D**

**General Science Notes for SSC CGL**

**Question 23**

Who authored the book titled 'Jinnah often came to our House', which won the 2016 The Hindu Prize?

- A Kiran Doshi
- B Salman Rushdie
- C K. Vijay Kumar
- D Yasser Usman

**Answer: A**

**Question 24**

With which country India has signed an agreement to renew the supply of Petroleum for a period of 5 years (i.e. till 2022) ?

- A Nepal
- B U.A.E.
- C Iran
- D Bhutan

**Answer: A**

**Question 25**

Which of the following neighbouring country of India is not a landlocked country?

- A Nepal
- B Myanmar
- C Bhutan
- D Afghanistan

Answer: B

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### Mathematics

#### Instructions

For the following questions answer them individually

#### Question 26

How many numbers are there from 300 to 700 which are divisible by 2, 3 and 7?

- A 7
- B 8
- C 9
- D 10

Answer: C

#### Explanation:

L.C.M.(2,3,7) = 42

=> Numbers from 300 to 700 which are divisible by 42 are = 336,378,420,...,672

This is an AP with first term =  $a = 336$  and common difference =  $d = 42$

Let number of terms =  $n$

=> Last term =  $a + (n - 1)d = 672$

=>  $336 + (n - 1)42 = 672$

=>  $(n - 1)42 = 672 - 336 = 336$

=>  $n - 1 = \frac{336}{42} = 8$

=>  $n = 8 + 1 = 9$

=> Ans - (C)

### SSC Exam Free Videos (Youtube)

#### Question 27

A and B do  $(3/5)$ th part of a work and the rest of the work is completed by C. If A, B and C take the same work for Rs 5000, then what is the share of C (in Rs)?

- A 3000
- B 2500
- C 2000



D 1500

Answer: C

Explanation:

Total amount distributed = Rs. 5000

Let total work = 1 unit

$$\Rightarrow \text{Work done by A and B} = \frac{3}{5}$$

$$\Rightarrow \text{Work done by C} = 1 - \frac{3}{5} = \frac{2}{5}$$

$$\therefore \text{Share of C} = \frac{2}{5} \times 5000 = \text{Rs. } 2000$$

$\Rightarrow$  Ans - (C)

Question 28

A solid cone of height 36 cm and radius of base 9 cm is melted to form a solid cylinder of radius 9 cm and height 9 cm. What percent of material is wasted this process?

A 25

B 0

C 5

D 10

Answer: A

Explanation:

Height of cone =  $H = 36$  cm and radius of cone =  $R = 9$  cm

$$\Rightarrow \text{Volume of cone} = \frac{1}{3} \pi R^2 H$$

$$= \frac{1}{3} \pi (9)^2 \times 36$$

$$= \pi \times 81 \times 12 = 972\pi \text{ cm}^3$$

Height of cylinder =  $h = 9$  cm and radius =  $r = 9$  cm

$$\Rightarrow \text{Volume of cylinder} = \pi r^2 h$$

$$= \pi \times (9)^2 \times 9 = 729\pi \text{ cm}^3$$

$$\therefore \% \text{ material wasted} = \frac{(972 - 729)}{972} \times 100$$

$$= \frac{243}{972} \times 100 = 25\%$$

$\Rightarrow$  Ans - (A)

Question 29

A dealer sells a machine having marked price as Rs 3840 at a discount of 20%. What is the selling price (in Rs) of the machine?

A 3072

B 3500

C 4608

D 3240

Answer: A

Explanation:

Marked price = Rs. 3840

Discount % = 20%

$$\Rightarrow \text{Selling price} = 3840 \times \frac{(100-20)}{100}$$

$$= 3840 \times \frac{4}{5} = \text{Rs. } 3072$$

$\Rightarrow$  Ans - (A)

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### Question 30

In what ratio tea at Rs 240/kg should be mixed with tea at Rs 280/kg so that on selling the mixture at Rs 324/kg there is a profit of 20%?

A 1 : 1

B 1 : 2

C 1 : 3

D 1 : 4

Answer: C

#### Explanation:

Selling price of final mixture = Rs. 324/kg and profit % = 20%

$$\Rightarrow \text{Cost price} = 324 \times \frac{100}{(100+20)} = 324 \times \frac{5}{6} = \text{Rs. } 270$$

Let the ratio in which tea at Rs. 240/kg and Rs. 280/kg is mixed be  $x : y$

$$\Rightarrow 240x + 280y = 270(x + y)$$

$$\Rightarrow 24x + 28y = 27x + 27y$$

$$\Rightarrow 27x - 24x = 28y - 27y$$

$$\Rightarrow 3x = y$$

$$\Rightarrow \frac{x}{y} = \frac{1}{3}$$

$\Rightarrow$  Ans - (C)

### Question 31

The average age of Ram and Rahim is 18 years. The average age of Rahim and Ramesh is 25 years. The average age of Ram and Ramesh is 29 years. What is the age (in years) of the eldest of the three?

A 14

B 22

C 28

D 36

Answer: D

#### Explanation:

Let the ages of Ram, Rahim and Ramesh be  $x, y, z$  respectively.

Average age of Ram and Rahim = 18 years

$$\Rightarrow \frac{x+y}{2} = 18$$

$$\Rightarrow x + y = 18 \times 2 = 36 \text{ ----- (i)}$$

Similarly,  $y + z = 25 \times 2 = 50$  -----(ii)

and  $x + z = 29 \times 2 = 58$  -----(iii)

Adding equations (i),(ii) and (iii)

$$\Rightarrow 2(x + y + z) = 36 + 50 + 58 = 144$$

$$\Rightarrow x + y + z = \frac{144}{2} = 72$$

Substituting value from equation (i) in above equation, we get :

$$\Rightarrow z = 72 - 36 = 36 \text{ years}$$

Similarly,  $x = 22$  years and  $y = 14$  years

$\therefore$  Age of the eldest of the three = 36 years

$\Rightarrow$  Ans - (D)

### Question 32

Profit obtained on selling an article for Rs 540 is equal to the loss incurred on selling the article for Rs 370. If selling price is Rs. 910, then what is the profit percentage?

A  $16\frac{2}{3}$

B  $33\frac{1}{3}$

C 50

D 100

Answer: D

### Explanation:

Let cost price of article = Rs.  $x$

When selling price = Rs. 540,  $\Rightarrow$  Profit = Rs.  $(540 - x)$

When selling price = Rs. 370,  $\Rightarrow$  Loss = Rs.  $(x - 370)$

According to ques,  $\Rightarrow (540 - x) = (x - 370)$

$$\Rightarrow x + x = 2x = 540 + 370$$

$$\Rightarrow x = \frac{910}{2} = \text{Rs. } 455$$

Now, if selling price = Rs. 910

$$\Rightarrow \text{Profit \%} = \frac{(910 - 455)}{455} \times 100$$

$$= \frac{455}{455} \times 100 = 100\%$$

$\Rightarrow$  Ans - (D)

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### Question 33

In an examination 65% students pass in history and 55% students pass in hindi. If 5% students failed in both the subjects, then what is the percentage of students who have passed in both the subjects?

A 15

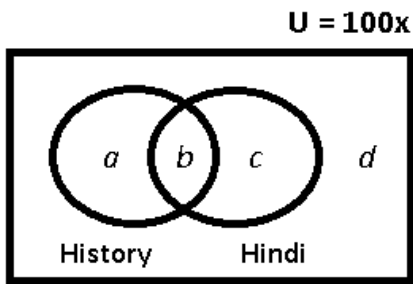
B 20

C 25

D 30

Answer: C

Explanation:



Let the total number of students in the exam be  $100x$

Now, 65% of the students pass in history, 55% pass in Hindi and 5% failed in both.

$$\Rightarrow a + b = 65x \text{ -----(i)}$$

$$b + c = 55x \text{ -----(ii)}$$

$$d = 5x \text{ -----(iii)}$$

Adding equations (ii) and (iii), we get :

$$\Rightarrow b + c + d = 60x$$

$$\text{Also, } a + b + c + d = 100x$$

$$\Rightarrow a + 60x = 100x$$

$$\Rightarrow a = 100x - 60x = 40x$$

Substituting it in equation (i),

$$\Rightarrow b = 65x - 40x = 25x$$

$\therefore$  25% of the students have passed in both the subjects.

$\Rightarrow$  Ans - (C)

**Question 34**

**Diameter of wheel of a cycle is 21 cm. The cyclist takes 45 minutes to reach a destination at a speed of 16.5 km/hr. How many revolutions will the wheel make during the journey?**

A 12325

B 18750

C 21000

D 24350

Answer: B

Explanation:

Speed of cyclist = 16.5 km/hr,  $\Rightarrow$  In 60 minutes he covers = 16.5 km

$$\Rightarrow \text{In 45 minutes he covers} = \frac{16.5}{60} \times 45 = 12.375 \text{ km} = 1237500 \text{ cm}$$

$$\text{Radius of cycle} = \frac{21}{2} \text{ cm}$$

$$\text{Distance covered in 1 revolution} = 2\pi r$$

$$= 2 \times \frac{22}{7} \times \frac{21}{2} = 66 \text{ cm}$$

∴ Number of revolutions made by the wheel in the journey =  $\frac{1237500}{66} = 18750$

⇒ Ans - (B)

### Question 35

A person invested a total sum of Rs 7900 in three different schemes of simple interest at 3%, 5% and 8% per annum. At the end of one year he got same interest in all three schemes. What is the money (in Rs) invested at 3%?

A 2900

B 3500

C 4000

D 5600

Answer: C

### Explanation:

Let the sum invested in the schemes at 3%, 5% and 8% per annum be Rs.  $100x$ ,  $100y$ ,  $100z$  respectively

Total sum = Rs. 7900

$$\Rightarrow 100x + 100y + 100z = 7900$$

$$\Rightarrow x + y + z = \frac{7900}{100} = 79 \text{ -----(i)}$$

$$\text{Simple interest} = \frac{P \times r \times t}{100}$$

$$\text{Interest in scheme 1} = \frac{100x \times 3 \times 1}{100} = \text{Rs. } 3x$$

Similarly, interest in scheme 2 = Rs.  $5y$  and interest in scheme 3 = Rs.  $8z$

According to ques,  $\Rightarrow 3x = 5y = 8z = k$

$$\Rightarrow x = \frac{k}{3}, y = \frac{k}{5}, z = \frac{k}{8} \text{ -----(ii)}$$

Substituting it in equation (i), we get :

$$\Rightarrow \frac{k}{3} + \frac{k}{5} + \frac{k}{8} = 79$$

$$\Rightarrow k \left( \frac{40+24+15}{120} \right) = 79$$

$$\Rightarrow \frac{79k}{120} = 79$$

$$\Rightarrow k = 120$$

$$\text{Substituting it in equation (ii), } \Rightarrow x = \frac{120}{3} = 40$$

∴ Money (in Rs) invested at 3% =  $100 \times 40 = \text{Rs. } 4000$

⇒ Ans - (C)

## SSC CGL Free Online Coaching

### Question 36

If  $x + \left(\frac{1}{x}\right) = 2$ , then what is the value of  $x^{21} + \left(\frac{1}{x^{1331}}\right)$ ?

A 0

B 1

C 2

D 4

Answer: C

**Explanation:**

$$\text{Given : } x + \left(\frac{1}{x}\right) = 2$$

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

$$\Rightarrow x^2 - 2x + 1 = 0$$

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

$$\Rightarrow x = 1$$

$$\therefore x^{21} + \left(\frac{1}{x^{1331}}\right)$$

$$= (1)^{21} + (1)^{\frac{1}{1331}}$$

$$= 1 + 1 = 2$$

$\Rightarrow$  Ans - (C)

**Question 37**

If  $x^3 - y^3 = 81$  and  $x - y = 3$ , then what is the value of  $x^2 + y^2$  ?

A 18

B 21

C 27

D 36

**Answer: B**

**Explanation:**

$$\text{Given : } x^3 - y^3 = 81 \text{ -----(i)}$$

$$\text{and } x - y = 3 \text{ -----(ii)}$$

Cubing both sides,

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

$$\Rightarrow x^3 - y^3 - 3xy(x - y) = 27$$

Substituting values from equations (i) and (ii), we get :

$$\Rightarrow 81 - 3xy(3) = 27$$

$$\Rightarrow 9xy = 81 - 27 = 54$$

$$\Rightarrow xy = \frac{54}{9} = 6 \text{ -----(iii)}$$

$$\text{Also, } (x - y)^2 = x^2 + y^2 - 2xy$$

Substituting values from equations (ii) and (iii), we get :

$$\Rightarrow (3)^2 = (x^2 + y^2) - 2(6)$$

$$\Rightarrow 9 = (x^2 + y^2) - 12$$

$$\Rightarrow x^2 + y^2 = 9 + 12 = 21$$

$\Rightarrow$  Ans - (B)

**Question 38**

If  $\sqrt{5x - 6} + \sqrt{5x + 6} = 6$ , then what is the value of x ?

A -4

B 0

C 2

D 4

Answer: C

Explanation:

Given :  $\sqrt{5x - 6} + \sqrt{5x + 6} = 6$

Squaring both sides,

$$\Rightarrow (\sqrt{5x - 6})^2 + (\sqrt{5x + 6})^2 + 2(\sqrt{5x - 6})(\sqrt{5x + 6}) = (6)^2$$

$$\Rightarrow (5x - 6) + (5x + 6) + 2\sqrt{25x^2 - 36} = 36$$

$$\Rightarrow 10x + 2\sqrt{25x^2 - 36} = 36$$

$$\Rightarrow \sqrt{25x^2 - 36} = 18 - 5x$$

Again squaring both sides, we get :

$$\Rightarrow 25x^2 - 36 = 324 + 25x^2 - 180x$$

$$\Rightarrow 180x = 324 + 36 = 360$$

$$\Rightarrow x = \frac{360}{180} = 2$$

$\Rightarrow$  Ans - (C)

## SSC CHSL Previous Question papers (download pdf)

Question 39

If  $2x + \frac{1}{2x} = 2$ , then what is the value of  $\sqrt{2\left(\frac{1}{x}\right)^4 + \left(\frac{1}{x}\right)^5}$  ?

A 1

B 2

C 4

D 8

Answer: D

Explanation:

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

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

$$\Rightarrow 4x^2 + 1 = 4x$$

$$\Rightarrow 4x^2 - 4x + 1 = 0$$

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

$$\Rightarrow 2x - 1 = 0$$

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

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

To find :  $\sqrt{2\left(\frac{1}{x}\right)^4 + \left(\frac{1}{x}\right)^5}$

$$= \sqrt{2(2)^4 + (2)^5}$$

$$= \sqrt{32 + 32} = \sqrt{64} = 8$$

=> Ans - (D)

#### Question 40

The side BC of  $\Delta ABC$  is produced to D. If  $\angle ACD = 114^\circ$  and  $\angle ABC = (1/2)\angle BAC$ , then what is the value (in degrees) of  $\angle BAC$ ?

A 36

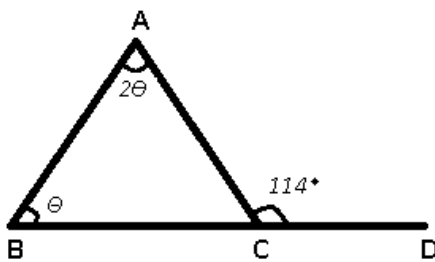
B 48

C 76

D 84

Answer: C

Explanation:



Given :  $\angle ACD = 114^\circ$  and  $\angle ABC = (1/2)\angle BAC$

To find :  $\angle BAC = 2\theta = ?$

=>  $\angle ABC = \theta$

Solution : Using exterior angle property

=>  $\angle A + \angle B = \angle ACD$

=>  $2\theta + \theta = 114^\circ$

=>  $\theta = \frac{114}{3} = 38^\circ$

$\therefore \angle BAC = 2\theta = 2 \times 38 = 76^\circ$

=> Ans - (C)

#### Question 41

O is the center of the circle and two tangents are drawn from a point P to this circle at points A and B. If  $\angle AOP = 50^\circ$ , then what is the value (in degrees) of  $\angle APB$ ?

A 60

B 80

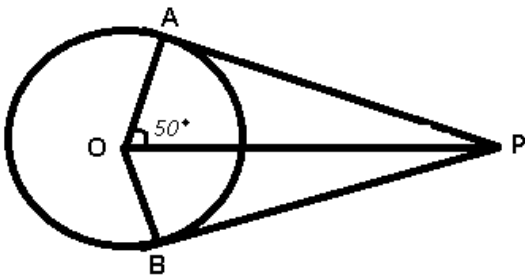
C 90

D 100

Answer: B

Explanation:





Given :  $\angle AOP = 50^\circ$

To find :  $\angle APB = 2\theta = ?$

Solution :  $\angle APO = \frac{1}{2} \times \angle APB$

$\Rightarrow \angle APO = \frac{1}{2} \times 2\theta = \theta$

Also, the radius of a circle intersects the tangent at the circumference of circle at  $90^\circ$

$\Rightarrow \angle OAP = 90^\circ$

In  $\triangle AOP$

$\Rightarrow \angle AOP + \angle APO + \angle OAP = 180^\circ$

$\Rightarrow \theta + 50^\circ + 90^\circ = 180^\circ$

$\Rightarrow \theta = 180^\circ - 140^\circ$

$\Rightarrow \theta = 40^\circ$

$\therefore \angle APB = 2\theta = 2 \times 40 = 80^\circ$

$\Rightarrow$  Ans - (B)

## Free SSC Study Material (18,000 Solved Questions)

### Question 42

In  $\triangle PQR$ ,  $PQ = PR = 18$  cm,  $AB$  and  $AC$  are parallel to lines  $PR$  and  $PQ$  respectively. If  $A$  is the mid-point of  $QR$ , then what is the perimeter (in cm) of quadrilateral  $ABPC$ ?

A 18

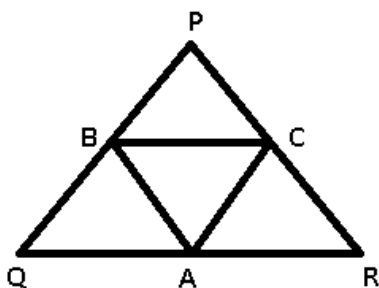
B 28

C 32

D 36

Answer: D

Explanation:



$PQ = PR = 18$  cm and  $A$  is the mid point of  $QR$

$AB$  is parallel to  $PR$  and  $AC$  is parallel to  $PQ$ ,  $\Rightarrow BC$  is parallel to  $QR$  and  $B$  and  $C$  are mid point of  $PQ$  and  $PR$  respectively.

$$\Rightarrow \frac{PB}{PQ} = \frac{BC}{QR}$$

$$\Rightarrow \frac{BC}{QR} = \frac{1}{2}$$

Thus,  $BC = \frac{1}{2} QR$

$$\Rightarrow PB = PC = BC = \frac{18}{2} = 9 \text{ cm}$$

Similarly,  $AB = AC = BC = 9 \text{ cm}$  and  $ABPC$  is a parallelogram.

$$\therefore \text{Perimeter of } ABPC = 4 \times 9 = 36 \text{ cm}$$

$\Rightarrow$  Ans - (D)

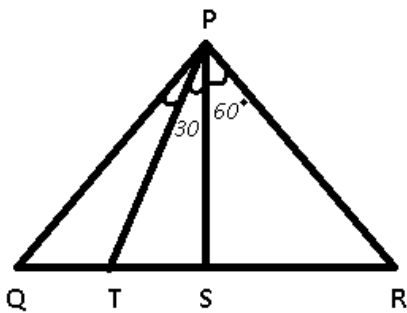
#### Question 43

In  $\triangle PQR$ ,  $PS$  and  $PT$  are bisectors of  $\angle QPR$  and  $\angle QPS$  respectively. If  $\angle QPT = 30^\circ$ ,  $PT = 9 \text{ cm}$  and  $TR = 15 \text{ cm}$ , then what is the area ( $\text{in cm}^2$ ) of  $\triangle PTR$ ?

- A 36
- B 54
- C 72
- D 216

Answer: B

Explanation:



$PS$  and  $PT$  are angle bisectors,  $\Rightarrow \angle QPT = \angle PTS = 30^\circ$  and  $\angle SPR = 60^\circ$

Thus,  $\angle TPR = 30^\circ + 60^\circ = 90^\circ$  and  $\triangle TPR$  is a right angled triangle.

$$\Rightarrow (PR)^2 = (TR)^2 - (PT)^2$$

$$\Rightarrow (PR)^2 = (15)^2 - (9)^2$$

$$\Rightarrow (PR)^2 = 225 - 81 = 144$$

$$\Rightarrow PR = \sqrt{144} = 12 \text{ cm}$$

$$\therefore \text{Area of } \triangle PTR = \frac{1}{2} \times (PT) \times (PR)$$

$$= \frac{1}{2} \times 9 \times 12 = 54 \text{ cm}^2$$

$\Rightarrow$  Ans - (B)

#### Question 44

What is the simplified value of  $[(\cot A - \tan A)^2]$

- A  $\sin A \cos A$
- B  $\tan 2A$

C  $\tan^2 A$

D  $\sin^2 A \cos^2 A$

Answer: B

Explanation:

Expression :  $[(\cot A - \tan A)^2]$

$$= 2 \div (\cot A - \tan A)$$

$$= 2 \div \left( \frac{\cos A}{\sin A} - \frac{\sin A}{\cos A} \right)$$

$$= 2 \div \left( \frac{\cos^2 A - \sin^2 A}{\sin A \cos A} \right)$$

$$= 2 \times \left( \frac{\sin A \cos A}{\cos^2 A - \sin^2 A} \right)$$

$$= \frac{2 \sin A \cos A}{\cos^2 A - \sin^2 A}$$

$$= \frac{\sin 2A}{\cos 2A} = \tan 2A$$

=> Ans - (B)

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Question 45

What is the simplified value of  $\sqrt{\frac{\operatorname{cosec} A - 1}{\operatorname{cosec} A + 1}}$  ?

A  $\operatorname{cosec} A$

B  $\sec A - \tan A$

C  $\operatorname{cosec}^2 A$

D  $\tan A - \operatorname{cosec} A$

Answer: B

Explanation:

Expression :  $\sqrt{\frac{\operatorname{cosec} A - 1}{\operatorname{cosec} A + 1}}$

$$= \sqrt{\frac{\frac{1}{\sin A} - 1}{\frac{1}{\sin A} + 1}}$$

$$= \sqrt{\frac{\frac{1 - \sin A}{\sin A}}{\frac{1 + \sin A}{\sin A}}} = \sqrt{\frac{1 - \sin A}{1 + \sin A}}$$

$$= \sqrt{\frac{1 - \sin A}{1 + \sin A} \times \frac{(1 - \sin A)}{(1 - \sin A)}}$$

$$= \sqrt{\frac{(1 - \sin A)^2}{1 - \sin^2 A}} = \sqrt{\frac{(1 - \sin A)^2}{\cos^2 A}}$$

$$= \frac{1 - \sin A}{\cos A} = \left( \frac{1}{\cos A} \right) - \left( \frac{\sin A}{\cos A} \right)$$

$$= \sec A - \tan A$$

=> Ans - (B)

Question 46

What is the simplified value of  $(\sec^4 A - \tan^2 A) - (\tan^4 A + \sec^2 A)$  ?

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

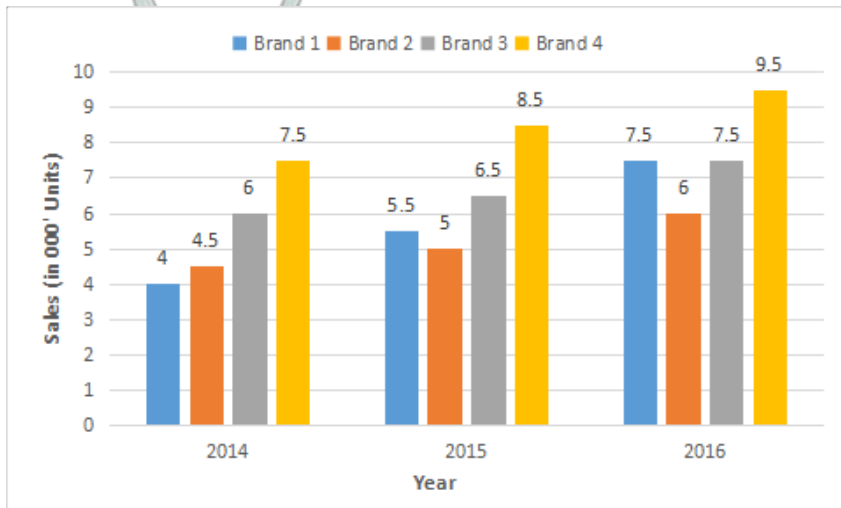
Answer: C

**Explanation:**

Expression :  $(\sec^4 A - \tan^2 A) - (\tan^4 A + \sec^2 A)$   
 $= (\sec^4 A - \tan^4 A) + (-\sec^2 A - \tan^2 A)$   
 $= [(\sec^2 A + \tan^2 A)(\sec^2 A - \tan^2 A)] + (-\sec^2 A - \tan^2 A)$   
 Using,  $(\sec^2 A - \tan^2 A = 1)$   
 $= (\sec^2 A - \sec^2 A) + (\tan^2 A - \tan^2 A) = 0$   
 $\Rightarrow$  Ans - (C)

**Instructions**

The bar chart given below shows the sales (in '000 units) of 4 mobile brands for 3 years.



**Question 47**

What is the percentage increase in number of mobile sold by Brand 2 from 2014 to 2015?

- A 8.33
- B 33.33
- C 37.5
- D 11.11

Answer: D

**Explanation:**

Number of mobiles sold by brand 2 in 2014 (in '000 units) = 4.5  
 Number of mobiles sold by brand 2 in 2015 (in '000 units) = 5  
 $\Rightarrow$  Required % increase =  $\frac{(5-4.5)}{4.5} \times 100$   
 $= \frac{100}{9} = 11.11\%$   
 $\Rightarrow$  Ans - (D)

**Question 48**

What is the percentage increase in the total number of mobiles sold by these four brands from 2014 to 2016?

- A 42.16
- B 38.63
- C 32.43
- D 30.16

**Answer: B**

**Explanation:**

Total number of mobiles sold by these four brands in 2014 (in '000 units) =  $4 + 4.5 + 6 + 7.5 = 22$

Total number of mobiles sold by these four brands in 2016 (in '000 units) =  $7.5 + 6 + 7.5 + 9.5 = 30.5$

$$\Rightarrow \text{Required \% increase} = \frac{(30.5 - 22)}{22} \times 100$$

$$= 38.63\%$$

$\Rightarrow$  Ans - (B)

**Question 49**

In 2017 the sales of each brand increased by the same percentage as it did in the year 2016. What will be the approximate average sales (in units) of mobiles per brand in year 2017?

- A 9175
- B 8360
- C 9436
- D 9678

**Answer: A**

**Explanation:**

$$\text{Increase in sales of brand 1 in 2016} = \frac{7.5 - 5.5}{5.5} \times 100 = 36.36\%$$

$$\Rightarrow \text{Sales of brand 1 in 2017} = 7.5 + \left(7.5 \times \frac{36.36}{100}\right) = 10.2$$

$$\text{Increase in sales of brand 2 in 2016} = \frac{6 - 5}{5} \times 100 = 20\%$$

$$\Rightarrow \text{Sales of brand 2 in 2017} = 6 + \left(6 \times \frac{20}{100}\right) = 7.2$$

$$\text{Increase in sales of brand 3 in 2016} = \frac{7.5 - 6.5}{6.5} \times 100 = 15.38\%$$

$$\Rightarrow \text{Sales of brand 3 in 2017} = 7.5 + \left(7.5 \times \frac{15.38}{100}\right) = 8.625$$

$$\text{Increase in sales of brand 4 in 2016} = \frac{9.5 - 8.5}{8.5} \times 100 = 11.76\%$$

$$\Rightarrow \text{Sales of brand 4 in 2017} = 9.5 + \left(9.5 \times \frac{11.76}{100}\right) = 10.545$$

$$\therefore \text{Average sales (in '000 units) of mobiles per brand in year 2017} = \frac{10.2 + 7.2 + 8.625 + 10.545}{4}$$

$$= \frac{36.57}{4} \times 1000 \approx 9175$$

$\Rightarrow$  Ans - (A)

**Question 50**

If for any year, the sales of a brand is more than average sales of these four brands in that year, then it gets a star. Which brand has the maximum stars?

- A Brand 3
- B Brand 3 and 4 both
- C Brand 4
- D All brands

**Answer:** C

**Explanation:**

$$\text{Average sales in 2014 (in '000)} = \frac{4+4.5+6+7.5}{4} = 5.5$$

=> In 2014, brands 3 and 4 get a star

$$\text{Average sales in 2015 (in '000)} = \frac{5.5+5+6.5+8.5}{4} = 6.375$$

=> In 2015, brands 3 and 4 get a star

$$\text{Average sales in 2016 (in '000)} = \frac{7.5+6+7.5+9.5}{4} = 7.625$$

=> In 2016, brand 4 gets a star

∴ Brand 4 gets the most star.

=> Ans - (C)

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**Reasoning**

**Instructions**

For the following questions answer them individually

**Question 51**

In the following question, select the related word from the given alternatives.

**Book : Pages :: Continent : ?**

- A Water
- B Forest
- C Countries
- D Land

**Answer:** C

**Explanation:**

A group of pages forms a book, similarly a group of countries makes a continent.

=> Ans - (C)

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**Question 52**

In the following question, select the related letters from the given alternatives.

**JKLM : IIII :: PQRS : ?**

- A PPPP
- B OOOO
- C TTTT
- D OOPP

**Answer: B**

**Explanation:**

Expression = JKLM : IIII :: PQRS : ?

The pattern is that the alphabet which precedes the first alphabet in English alphabetical order is written 4 times.

Eg = Letter 'I' precedes 'J' and hence it is written four times.

Similarly, the letter that precedes 'P' is 'O', thus PQRS : OOOO

=> Ans - (B)

**Question 53**

In the following question, select the related number from the given alternatives.

4 : 17 :: 7 : ?

- A 49
- B 50
- C 51
- D 52

**Answer: B**

**Explanation:**

Expression : 4 : 17 :: 7 : ?

The pattern followed is =  $n : n^2 + 1$

Eg =  $4 : 4^2 + 1 = 4 : 17$

Similarly,  $7^2 + 1 = 49 + 1 = 50$

=> Ans - (B)

**Question 54**

In the following question, select the odd word pair from the given alternatives.

- A Sad : Hopeful
- B Happy : Ecstatic
- C High : Giant
- D Trail : Pathway

**Answer: A**

**Explanation:**

Sad and hopeful are antonyms. Happy and ecstatic are synonyms. Similarly high, giant and trail, pathway have similar meanings.

Thus, Sad : Hopeful is the odd one out.

=> Ans - (A)

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### Question 55

In the following question, select the odd letters from the given alternatives.

- A FHJ
- B LNQ
- C JLN
- D NPR

**Answer: B**

#### Explanation:

(A) : F (+2 letters) = H (+2 letters) = J

(B) : L (+2 letters) = N (+3 letters) = Q

(C) : J (+2 letters) = L (+2 letters) = N

(D) : N (+2 letters) = P (+2 letters) = R

=> Ans - (B)

### Question 56

In the following question, select the odd number pair from the given alternatives.

- A 11 - 121
- B 13 - 169
- C 19 - 391
- D 21 - 441

**Answer: C**

#### Explanation:

Squares of each number is given

$$11^2 = 121$$

$$13^2 = 169$$

$$19^2 = 361 \neq 391$$

$$21^2 = 441$$

=> Ans - (C)

### Question 57

Arrange the given words in the sequence in which they occur in the dictionary.

1. Feeble
2. From
3. Floor
4. Foam
5. Fluorescent

- A 13542
- B 15342



C 13524

D 15324

Answer: A

**Explanation:**

As per the dictionary,

Feeble -> Floor -> Fluorescent -> Foam -> From

≡ 13542

=> Ans - (A)

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**Question 58**

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

A, E, I, M, ?

A P

B Q

C R

D O

Answer: B

**Explanation:**

Expression : A, E, I, M, ?

The pattern followed is that there is a difference of 4 letters in two consecutive terms.

A (+4 letters) = E (+4 letters) = I (+4 letters) = M (+4 letters) = Q

=> Ans - (B)

**Question 59**

In the following question, select the missing number from the given series.

1, 3, 6, 11, 18, ?

A 27

B 28

C 29

D 31

Answer: C

**Explanation:**

The pattern followed is that prime numbers are added to each number.

$$1 + 2 = 3$$

$$3 + 3 = 6$$

$$6 + 5 = 11$$

$$11 + 7 = 18$$

$$18 + 11 = 29$$

=> Ans - (C)

#### Question 60

Pointing towards a man, Ritika said "He is the son of my grandfather's only son". How is Ritika related to that man?

- A Aunty
- B Sister
- C Mother
- D Wife

Answer: B

#### Explanation:

Ritika's grandfather's only son is her father.

Now, the man is mentioned is the son of Ritika's father, thus they are siblings.

=> Ritika is that man's sister.

=> Ans - (B)

## SSC CGL Tier-2 Previous Papers PDF

#### Question 61

Among four books, Book 1 is twice as heavy as Book 2. Book 3's weight is half of Book 2's weight. Book 4 is 60 grams more as compared to Book 2 but 60 grams less as compared Book 1. Which book is heaviest?

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

Answer: A

#### Explanation:

Let weight of Book 2 =  $2x$  kg

=> Weight of Book 1 =  $4x$  kg

and weight of book 3 =  $x$  kg

Thus, weight of book 4 =  $2x + 60 = 4x - 60$

=>  $4x - 2x = 60 + 60$

=>  $2x = 120$

=>  $x = \frac{120}{2} = 60$

Thus, respective weights of Book 1,2,3 and 4 = 240, 120, 60, 180 kg

∴ Book 1 is the heaviest.

=> Ans - (A)

#### Question 62

In the following question, from the given alternative words, select the word which cannot be formed using the letters of the given word.

Improvement

- A Rope
- B Trim
- C Important
- D Prove

**Answer: C**

**Explanation:**

The word IMPROVEMENT does not contain any 'A', and thus the word 'Important' cannot be formed.

=> Ans - (C)

**Question 63**

In a certain code language, "MASTER" is written as "682145" and "STAMP" is written as "21869". How is "PASTE" written in that code language?

- A 82145
- B 98214
- C 69218
- D 95184

**Answer: B**

**Explanation:**

Codes for each letter is given.

- P -> 9
- A -> 8
- S -> 2
- T -> 1
- E -> 4

Thus, PASTE = **98214**

=> Ans - (B)

## SSC CGL Important Questions PDF

**Question 64**

If "K" denotes "multiplied by", "M" denotes "subtracted from", "J" denotes "added to" and "L" denotes "divided by", then

**44 M 24 K 56 L 14 J 60 = ?**

- A 16
- B 72
- C 8
- D 140

**Answer: C**

**Explanation:**

Expression :  $44 M 24 K 56 L 14 J 60 = ?$

$$\equiv 44 - 24 \times 56 \div 14 + 60$$

$$= 44 - 24(4) + 60$$

$$= 104 - 96 = 8$$

=> Ans - (C)

#### Question 65

If 27 (15) 33 and 41 (13) 53, then what is the value of 'A' in 26 (A) 35?

A 16

B 13

C 14

D 11

Answer: A

#### Explanation:

The sum of digits of both the numbers is equal to the middle number.

$$\text{Eg : } (2 + 7) + (3 + 3) = 9 + 6 = 15$$

$$\text{and } (4 + 1) + (5 + 3) = 5 + 8 = 13$$

$$\text{Similarly, } (2 + 6) + (3 + 5) = 8 + 8 = 16$$

=> Ans - (A)

#### Question 66

In the following question. select the number which can be placed at the sign of question mark (?) from the given alternatives.

3	2
5	4
1	7

1	2
7	6
4	2

2	1
3	11
1	?

A 2

B 4

C 6

D 8

Answer: B

#### Explanation:

The sum of the numbers in all the boxes is same.

$$\text{Eg : } 3 + 2 + 5 + 4 + 1 + 7 = 22$$

$$\text{and } 1 + 2 + 7 + 6 + 4 + 2 = 22$$

$$\text{Similarly, } 2 + 1 + 3 + 11 + 1 + x = 22$$

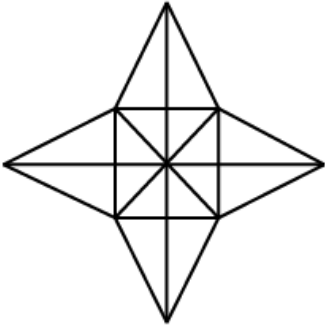
$$\Rightarrow x = 22 - 18 = 4$$

=> Ans - (B)

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Question 67

How many triangles are there in the given figure ?



- A 28
- B 36
- C 40
- D 48

Answer: B

Question 68

In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

- I. Some pens are pencils.
- II. Some pens are erasers.

Conclusions:

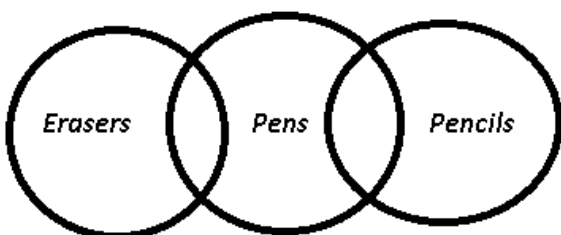
- I. Some pencils are erasers.
- II. All erasers are pens.

- A Only conclusion (I) follows.
- B Only conclusion (II) follows.
- C Both conclusion follow.
- D Neither conclusion (I) nor conclusion (II) follows.

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusions:

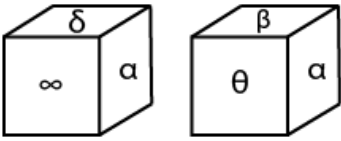
- I. Some pencils are erasers = false
- II. All erasers are pens = false

Thus, neither conclusion (I) nor conclusion (II) follows.

=> Ans - (D)

**Question 69**

Two positions of a cube are shown below. What will come opposite to face containing 'δ' ?



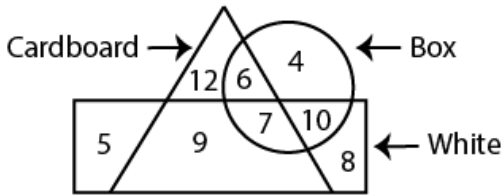
- A δ
- B θ
- C β or θ
- D β

Answer: D

**General Science Notes for SSC CGL**

**Question 70**

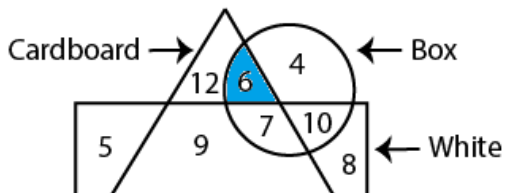
In the given figure, how many cardboard boxes are not white?



- A 6
- B 13
- C 7
- D 9

Answer: A

Explanation:

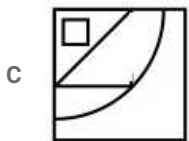
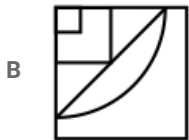


Cardboard boxes which are not white is represented by blue colour = 6

=> Ans - (A)

Question 71

Which answer figure will complete the pattern in the question figure?



Answer: A

**Explanation:**

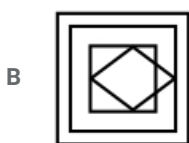
In the above figure, bottom left side of a square is missing, so second and third options are eliminated.

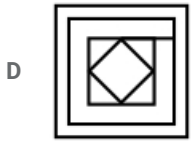
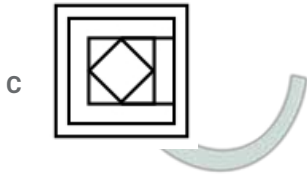
Also, a square is inscribed in another square, and thus last option is also not possible.

=> Ans - (A)

Question 72

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



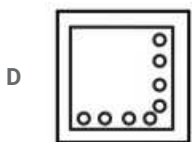
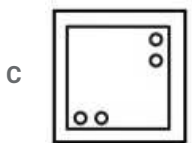
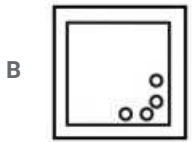
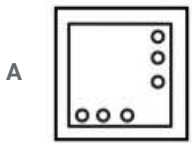


Answer: C

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Question 73

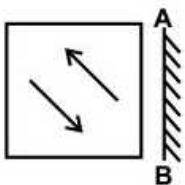
A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?



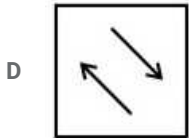
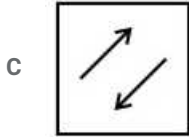
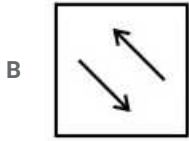
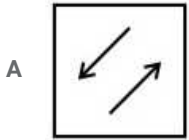
Answer: A

Question 74

If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?







Answer: C

**Explanation:**

A vertical mirror is placed, so the objects on the left will appear at right and vice-versa. Thus, the arrows are currently left diagonals of the square, in the mirror image, they will appear as right diagonals, thus second and fourth options are eliminated.

The arrow pointing upwards will still remain above the other arrow but will face towards north-east direction, thus first option is also not possible.

=> Ans - (C)

**Question 75**

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns 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, for example, 'E' can be represented by 23, 41, etc., and 'P' can be represented by 56, 97, etc. Similarly, you have to identify the set for the word "GREAT".

**Matrix - I**

	0	1	2	3	4
0	E	R	G	L	O
1	G	L	E	O	R
2	R	O	L	E	G
3	L	G	O	R	E
4	O	E	R	G	L

**Matrix - II**

	5	6	7	8	9
5	M	P	S	T	A
6	P	S	T	A	M
7	T	M	A	S	P
8	S	A	M	P	T
9	A	T	P	M	S

A 10, 14, 00, 59, 97

B 31, 33, 41, 67, 76

C 43, 01, 23, 95, 89

D 24, 42, 11, 86, 95

Answer: C

**Explanation:**

(A) : 10, 14, 00, 59, 97 = GREAP

(B) : 31, 33, 41, 67, 76 = GRETM

(C) : 43, 01, 23, 95, 89 = **GREAT**

(D) : 24, 42, 11, 86, 95 = GRLAA

=> Ans - (C)

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### English

#### Instructions

For the following questions answer them individually

#### Question 76

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No error'.

I was taken with surprise (a)/ when I saw (b)/ the beautiful Taj Mahal. (c)/ No Error (d)

- A I was taken with surprise
- B when I saw
- C the beautiful Taj Mahal
- D No Error

Answer: A

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#### Question 77

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No error'.

I finished my household chores (a)/ before he reached (b)/ to my place after so long. (c)/ No Error (d)

- A I finished my household chores
- B before he reached
- C to my place after so long
- D No Error

Answer: A

#### Question 78

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Being a \_\_\_\_ doctor, he never shirks work.

- A conscious
- B conscience
- C conscientious
- D consensus

Answer: C

**Question 79**

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

The meeting was presided \_\_\_\_ by the Chairman.

- A over
- B upon
- C of
- D in

**Answer: A**

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**Question 80**

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

**Vacillate**

- A Continue
- B Playful
- C Conclusive
- D Irresolute

**Answer: D**

**Question 81**

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

**Indomitable**

- A Unconquerable
- B Conflicting
- C Falsification
- D Intermittent

**Answer: A**

**Question 82**

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

**Extenuate**

- A Strengthen
- B Enfeeble
- C Abate
- D Acquit

Answer: A

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### Question 83

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.

**Fecund**

- A Prolific
- B Sterile
- C Necessitate
- D Turmoil

Answer: B

### Question 84

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/Phrase.

**The thin end of the wedge**

- A In strict vigilance
- B Start of harmful development
- C Be aware of the trick
- D Not a worthy possession

Answer: B

### Question 85

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/Phrase.

**To accept the gauntlet**

- A To accept challenge
- B To accept defeat
- C To accept what is written in fate
- D To be able to grasp the hidden meaning

Answer: A

## SSC CHSL Previous Question papers (download pdf)

### Question 86

Improve the bracketed part of the sentence.

The (reason of) her outburst in the party is yet unknown.

- A reason for
- B reason to

- C reason on
- D No improvement

Answer: A

**Question 87**

Improve the bracketed part of the sentence.

I left my job because I did not (agree to) the company's appraisal policies.

- A agree about
- B agree with
- C agree on
- D No improvement

Answer: B

**Question 88**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

Speaking with a stammer or lisp

- A Melliloquent
- B Dentiloquent
- C Fatiloquent
- D Stuttering

Answer: D

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**Question 89**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase.

Excessive desire to work

- A Ergomania
- B Idolomania
- C Islomania
- D Ethnomania

Answer: A

**Question 90**

In the following question, four words are given out of which one word is incorrectly spelt. Find the incorrectly spelt word.

- A Pertinacious
- B Demarcation

- C Temperament
- D Sureptitious

Answer: D

#### Question 91

In the following question, four words are given out of which one word is incorrectly spelt. Find the incorrectly spelt word.

- A Treachery
- B Refrendum
- C Suppression
- D Resemblance

Answer: B

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#### Question 92

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

P: While the Soviet Government bought grain and other foreign consumer goods to be sold in domestic markets at heavily subsidized rates, Russia rejected socialism.

Q: The oil industry was the prime target of a sweeping privatization drive launched after the break-up of the Soviet Union.

R: The Russian government has failed to do for its people even a fraction of what the Soviet Union, with twice the population, did with the revenue generated from oil.

S: However, not all Russian have been rolling in oil wealth.

- A QSRP
- B PRQS
- C RQSP
- D RSPQ

Answer: A

#### Question 93

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

P: The recent reduction in interest rates in the US and the injection of liquidity have resulted in investors seeking new avenues such as commodity markets, in view of the turbulence in financial markets and the low returns in treasuries.

Q: The relatively easy liquidity and low interest rates, by themselves, make holding of inventories attractive and thus induce volatility in commodity markets.

R: The financialisation of commodity trade and current extraordinary conditions in global financial markets could have influenced the spurt in prices.

S: The weakening of the US dollar is also advanced as a reason for the recent volatility in commodity markets, including food items.

- A PRQS
- B SPQR
- C QSPR

D RPQS

Answer: D

Question 94

In the following question, a sentence has been given in Active/Passive voice. Out of four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

I hope that I shall win this dance competition.

- A It is hoped that the dance competition will be won by me.
- B Winning the dance competition is hoped by me.
- C Dance competition winning is my hope.
- D The dance competition is hoped to be won.

Answer: A

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Question 95

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

He said, "Let it rain I have to go."

- A He persisted that he did not care for the rain and he had to go.
- B He said that rain can't stop him to go out.
- C He exclaimed that let it rain but he will go.
- D He said that he can't go just because it is raining.

Answer: A

Instructions

In the following passage some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

India's motto has been Vasudeva Kutumbakam or that the whole world is \_\_ (1) \_\_ community. There are a \_\_ (2) \_\_ of pillars upon which India's policy of living in peace with and \_\_ (3) \_\_ peace among nations of the world rests. Policies of non-alignment, peaceful co-existence, economic and cultural cooperation disarmament and peaceful \_\_ (4) \_\_ of nuclear energy, \_\_ (5) \_\_ of International disputes through negotiations and peaceful means are some of the salient features that give credence to India's commitment to world peace.

Question 96

(1)

- A one
- B distinct
- C essential
- D significant

Answer: A

**Question 97**

(2)

A numerous

B number

C many

D loop

**Answer: B**

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**Question 98**

(3)

A disturbing

B allowing

C generating

D promoting

**Answer: D**

**Question 99**

(4)

A uses

B disruption

C sources

D negotiation

**Answer: A**

**Question 100**

(5)

A urge

B requirement

C settlement

D enactment

**Answer: C**

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