



## SSC CGL 4th March 2020 Shift-1

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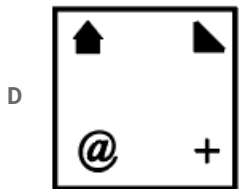
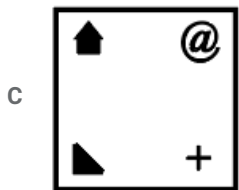
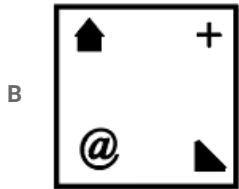
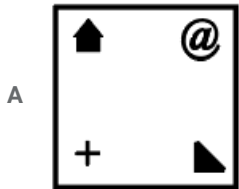
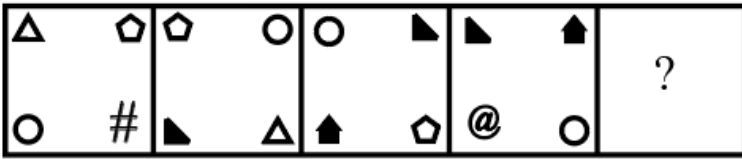
# General Intelligence and Reasoning

## Instructions

For the following questions answer them individually

### Question 1

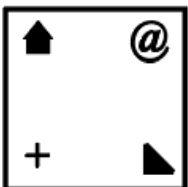
Select the figure that can replace the question mark (?) in the following series.



Answer: A

### Explanation:

next figure,



∴ The correct answer is option A.

## SSC CGL Free Mock Test

### Question 2

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

A Righteousness

- B Virtue
- C Conduct
- D Probity

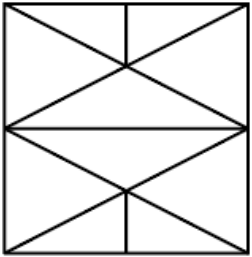
Answer: C

**Explanation:**

Except 'conduct' remaining all have same meaning.  
 $\therefore$  The correct answer is option C.

**Question 3**

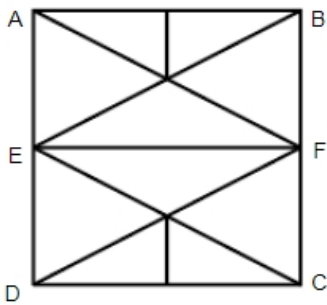
How many triangles are present in the given figure?



- A 26
- B 28
- C 22
- D 30

Answer: C

**Explanation:**



Number of triangles in ABFE = 10  
 Number of triangles in EFCD = 10  
 And 2 triangles are AFD and CEB.  
 Total number of triangle =  $10 + 10 + 2 = 22$   
 $\therefore$  The correct answer is option C.

**Question 4**

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

7	11	14
53	127	?
4	6	3

- A 200
- B 196

- C 199  
D 169

Answer: C

Explanation:

$$(7)^2 + 4 = 49 + 4 = 53$$

$$(11)^2 + 6 = 121 + 6 = 127$$

$$(14)^2 + 3 = 196 + 3 = 199$$

∴ The correct answer is option C.

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Question 5

In a certain code language, LARVAE is coded as 3-1-9-4-1-5. How will INSECT be coded as in that language?

- A 9-4-8-4-6-7  
B 3-4-8-2-6-8  
C 9-4-8-2-6-7  
D 9-5-10-5-3-2

Answer: D

Explanation:

$$L(12) = 1 + 2 = 3$$

$$A = 1$$

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

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

$$A = 1$$

$$E = 5$$

Similarly,

$$I = 9$$

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

$$S(19) = 1 + 9 = 10$$

$$E = 5$$

$$C = 3$$

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

'INSECT' is coded as 9-5-10-5-3-2.

∴ The correct answer is option D.

Question 6

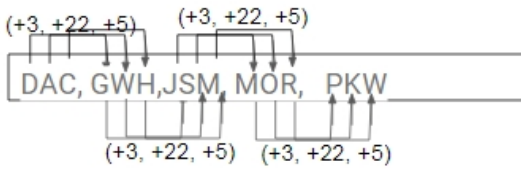
Select the letter-cluster that can replace the question mark (?) in the following series.

DAC, GWH, JSM, MOR, ?

- A QKV  
B PKW  
C QJW  
D PJV

Answer: B

Explanation:



So, next letter cluster = PKW

∴ The correct answer is option B.

#### Question 7

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

17, 20, 15, 22, 13, ?

- A 2
- B 22
- C 4
- D 24

**Answer: D**

#### Explanation:

The series follows as pattern,

$$17 + 3 = 20$$

$$20 - 5 = 15$$

$$15 + 7 = 22$$

$$22 - 9 = 13$$

$$13 + 11 = 24$$

∴ The correct answer is option D.

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#### Question 8

Select the option in which the numbers are related in the same way as are the numbers in the given set.

(109, 114, 139)

- A (419, 424, 439)
- B (268, 302, 237)
- C (579, 534, 549)
- D (313, 318, 343)

**Answer: D**

#### Explanation:

In (109, 114, 139),

$$109 + 5 = 114$$

$$114 + 5^2 = 114 + 25 = 139$$

Similarly,

In (313, 318, 343),

$$313 + 5 = 318$$

$$318 + 5^2 = 318 + 25 = 343$$

∴ The correct answer is option D.

Question 9

Which two signs should be interchanged to make the given equation correct?

$$225 + 5 \times 3 \div 5 - 7 = 133$$

- A  $-and \times$
- B  $+and \div$
- C  $+and \times$
- D  $-and \div$

Answer: B

Explanation:

$$225 + 5 \times 3 \div 5 - 7 = 133$$

From the option B,

$$225 \div 5 \times 3 + 5 - 7 = 133$$

$$45 \times 3 + 5 - 7 = 133$$

$$135 + 5 - 7 = 133$$

$$133 = 133$$

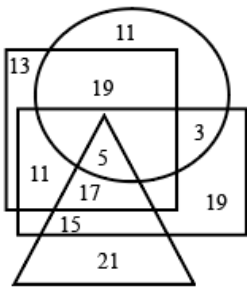
∴ The correct answer is option B.

Question 10

The given Venn diagram represents artists in a circus:

The triangle represents clowns, the circle represents acrobats, the rectangle represents males and the square represents ringmasters.

The numbers given in the diagram represent the number of persons in that particular category.



How many male clowns are also ringmasters, but NOT acrobats?

- A 15
- B 5
- C 17
- D 11

Answer: C

Explanation:

Number of male clowns which are ringmasters, but NOT acrobats = 17

∴ The correct answer is option C.

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Question 11

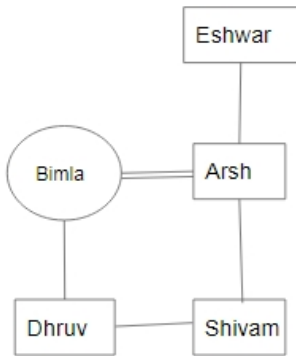
Arsh is Shivam's father and Dhruvis the son of Bimla. Eshwar is the father of Arsh. If Shivam is the brother of Dhruv, how is Bimla related to Eshwar?

- A Wife
- B Daughter-in-law
- C Mother
- D Sister-in-law

Answer: B

**Explanation:**

In the diagram square and circle shows the male and females respectively. Vertical lines show the son/father, horizontal line show the brother/sister and double horizontal lines show the couple.



From the diagram,  
Bimla is daughter-in-law of Eshwar.

**Question 12**

Select the option in which the words share the same relationship as that shared by the given pair of words.

Hive : Bee

- A Burrow : Hare
- B Sty : Dog
- C Eyrie : Bear
- D Stable : Cow

Answer: A

**Explanation:**

Bee lives in hive similarly,  
Hare lives in burrow.

∴ The correct answer is option A.

**Question 13**

Select the correct combination of mathematical signs to sequentially replace the \* signs, to balance the following equation.

$$(12 * 7 * 6) * 13 * 6$$

- A  $\times, -, \div, =$
- B  $\div, -, =, \times$
- C  $-, \div, \times, =$
- D  $\times, =, \div, -$

Answer: A

**Explanation:**

$$(12 * 7 * 6) * 13 * 6$$

From the option A,

$$(12 \times 7 - 6) \div 13 = 6$$

$$78 \div 13 = 6$$

$$6 = 6$$

∴ The correct answer is option A.

## SSC CGL Tier-2 Previous Papers PDF

**Question 14**

In a certain code language, STRAIGHT is written as TSARGITH. How will THURSDAY be written as in that language?

- A UHTDRSYA
- B HTRUDSYA
- C HTRUDSAY
- D AYSDURTH

**Answer: B**

**Explanation:**

STRAIGHT  
↓ ↓ ↓ ↓ ↓  
TSARGITH

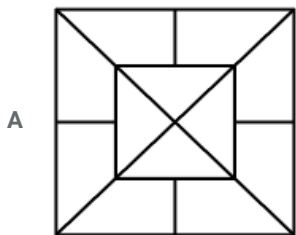
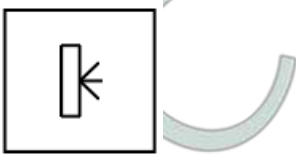
Similarly,

THURSDAY  
↓ ↓ ↓ ↓ ↓  
HTRUDSYA

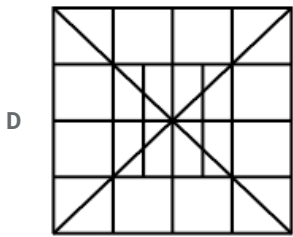
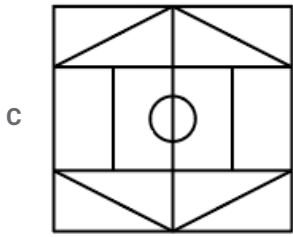
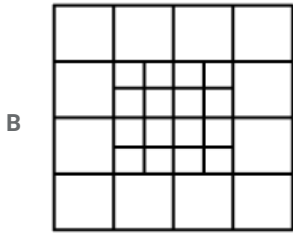
∴ The correct answer is option B.

**Question 15**

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



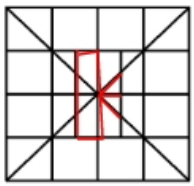




Answer: D

**Explanation:**

The following answer figure contains question figure,



∴ The correct answer is option D.

**Question 16**

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(s) from the statements.

**Statements:**

1. Some cars are rockets.
2. All rockets are engines.

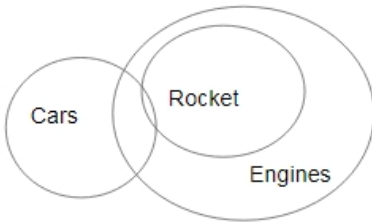
**Conclusions:**

- I. Some engines are rockets.
- II. Some engines are cars.

- A Neither conclusion I nor II follows.
- B Only conclusion II follows.
- C Only conclusion I follows.
- D Both conclusions I and II follow.

Answer: D

**Explanation:**



From the Venn diagram,  
Both conclusions I and II follow.  
∴ The correct answer is option D.

## SSC CGL Important Questions PDF

### Question 17

Arrange the following words in the order in which they appear in an English dictionary.

1. Gemlike
2. Geminate
3. Gemmier
4. Geminal
5. Gemini

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

Answer: D

#### Explanation:

Word according to English dictionary,  
Geminal, Geminiate, Gemini, Gemlike, Gemmier  
∴ The correct answer is option D.

### Question 18

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

#PaVSArK@

- A @K1A2VrP#  
B @K1A2VrP#  
C #b9A2VrK@  
D #K1A2VrP@

Answer: A

#### Explanation:

Mirror image =

@K1A2VrP#

∴ The correct answer is option A.

Question 19

Select the option that is related to the third word in the same way as the second word is related to the first word.  
Jackal : Howl :: Rain : ?

- A Hustle
- B Thunder
- C Patter
- D Drops

Answer: C

Explanation:

As howl is related to the jackal similarly, patter is related to the rain.

∴ The correct answer is option C.

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Question 20

Select the set of letters that when sequentially placed in the blanks of the given letter series will complete the series.  
\_swws\_wws\_swww\_sss

- A w, s, w, s
- B w, s, s, s
- C w, w, s, s
- D w, s, s, w

Answer: B

Explanation:

w/s/ww/ss/www/sss/www/sss

∴ The correct answer is option B

Question 21

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

- A YXW
- B FGH
- C NML
- D TSR

Answer: B

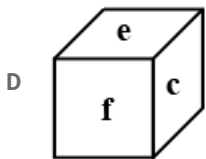
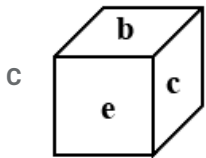
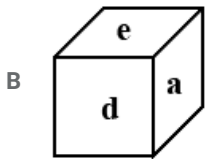
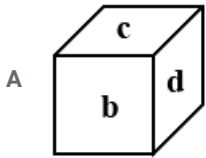
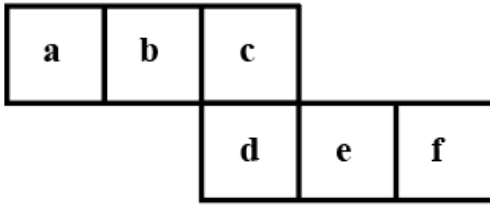
Explanation:

Except 'FGH' remaining all letter-clusters are in decreasing order.

∴ The correct answer is option B.

Question 22

Select the box that CANNOT be formed by folding the given unfolded box.



Answer: B

Explanation:

From the unfolded box,

Opposite side of a = c

Opposite side of f = d

Opposite side of b = e

∴ The correct answer is option B.

## General Science Notes for SSC CGL

Question 23

A recent survey of married couples in Indian metro cities showed that 20% of the couples have only one child, 45% of the remaining couples have two children, and the rest of the couples have three or more children. What is the percentage of couples with three or more children?

A 56%

B 44%

C 42%

D 35%

Answer: B

**Explanation:**

Let the total couple be 100.

Couple with one child = 20

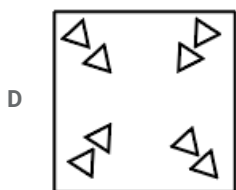
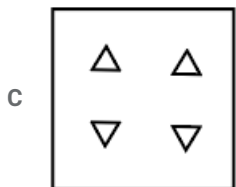
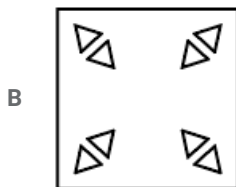
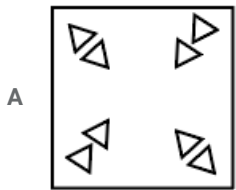
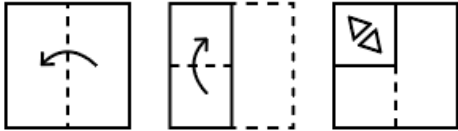
Remaining couples =  $100 - 20 = 80$

Couple with two child = 45% of the remaining =  $80 \times 45\% = 36$

Couples with three or more children =  $80 - 36 = 44\%$

**Question 24**

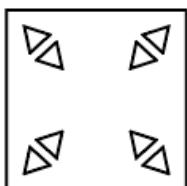
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



Answer: B

**Explanation:**

Look of the paper when unfolded -



∴ The correct answer is option B.

**Question 25**

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.

52 : 221 :: 20 : ? :: 64 : 272

- A 85
- B 84
- C 255
- D 170

Answer: A

**Explanation:**

$$52 \times 4 + \frac{52}{4} = 208 + 13 = 221$$

$$64 \times 4 + \frac{64}{4} = 256 + 16 = 272$$

Similarly,

$$20 \times 4 + \frac{20}{4} = 80 + 5 = 85$$

∴ The correct answer is option A.

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### General Awareness

#### Instructions

For the following questions answer them individually

#### Question 26

The \_\_\_\_\_ lake in Gujarat was an artificial reservoir built during the rule of the Mauryas.

- A Pushkar
- B Sudarshana
- C Loktak
- D Lonar

Answer: B

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#### Question 27

\_\_\_\_\_ was the capital of Magadha before the 4th century BCE.

- A Varanasi
- B Mathura
- C Rajagaha
- D Pataliputra

Answer: C

#### Question 28

Which of the following is NOT a folk dance belonging to the union territory of Jammu and Kashmir?

- A Hafiza

- B Dhumal
- C Dangi
- D Rouf

**Answer: C**

**Question 29**

Lt. General \_\_\_\_\_ took charge as the Chief of Army Staff on 31 December 2019.

- A Bipin Rawat
- B Manoj Mukund Naravane
- C Ravendra Pal Singh
- D Anil Chauhan

**Answer: B**

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**Question 30**

The Harshacharita is a biography of Harshavardhana, the ruler of Kannauj, composed in Sanskrit by his court poet, \_\_\_\_\_.

- A Jinsena
- B Dandin
- C Kamban
- D Banabhatta

**Answer: D**

**Question 31**

In biological terms, \_\_\_\_\_ is a relationship between two organisms in which one organism benefits and the other is unaffected.

- A Amensalism
- B Commensalism
- C Parasitism
- D Mutualism

**Answer: B**

**Question 32**

The 14th Dalai Lama resides in \_\_\_\_\_.

- A Shillong
- B Kalimpong
- C Dharamsala

D Gangtok

Answer: C

## Daily Free SSC Practice Set

### Question 33

According to the United Nations' World Economic Situation and Prospects Report, 2019, the Indian economy is expected to expand by \_\_\_\_ in 2020.

A 7.1%

B 7.6%

C 7.8%

D 7.2%

Answer: A

### Question 34

In the 4th century BCE, the capital of Magadha was shifted to \_\_\_\_\_.

A Panipat

B Varanasi

C Mathura

D Pataliputra

Answer: D

### Question 35

Article 17 of the Constitution of India deals with the abolition of \_\_\_\_\_.

A untouchability

B slavery

C titles

D sati

Answer: A

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### Question 36

In April 2019, scientists in \_\_\_\_\_ produced the world's first 3D printed heart using human tissue.

A Croatia

B Kenya

C Ethiopia



D Israel

Answer: D

**Question 37**

The Vedic Civilisation in India flourished along the river\_\_\_\_\_.

A Tapi

B Narmada

C Saraswati

D Godavari

Answer: C

**Question 38**

\_\_\_\_\_ expansion makes the Eiffel Tower taller during summers.

A Thermal

B Chemical

C Gravitational

D Gradient

Answer: A

**SSC CHSL Previous Question papers (download pdf)**

**Question 39**

King Harshavardhana ascended the throne of Thaneshwar and Kannauj on the death of his brother, \_\_\_\_\_.

A Rajyavardhana

B Suryavardhana

C Indravardhana

D Chandravardhana

Answer: A

**Question 40**

Who was the President of the World Bank Group as of January, 2020?

A Paul Wolfowitz

B David Malpass

C Robert Zoellick

D Jim Yong Kim

Answer: B

Question 41

Who among the following is an Indian Olympic archer and Padma Shri winner?

- A Bajrang Punia
- B Balbir Singh Dosanjh
- C Limba Ram
- D Kidambi Srikanth

Answer: C

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

Question 42

In May 2019, the International Monetary Fund agreed to bail out \_\_\_\_\_ with a fund of \$6 billion.

- A India
- B Bangladesh
- C Nepal
- D Pakistan

Answer: D

Question 43

Planetary scientists call the thin gaseous envelope around the Moon as the \_\_\_\_\_.

- A lunar exosphere
- B lunar thermosphere
- C lunar stratosphere
- D lunar endosphere

Answer: A

Question 44

The major component of modern Olympic gold medals is \_\_\_\_\_.

- A Gold
- B Silver
- C Copper
- D Bronze

Answer: B

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**Question 45**

The Gol Gumbad (Gumbaz) of \_\_\_\_\_ is the mausoleum of Muhammad Adil Shah.

- A Bijapur
- B Allahabad
- C Delhi
- D Agra

**Answer: A**

**Question 46**

Private ownership of the means of production is a feature of a \_\_\_\_\_ economy.

- A dual
- B mixed
- C socialist
- D capitalist

**Answer: D**

**Question 47**

Xerophthalmia is caused due to the deficiency of vitamin \_\_\_\_\_.

- A D
- B C
- C A
- D K

**Answer: C**

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**Question 48**

The Biraja Temple, the Rajarani Temple and the Samaleswari Temple are all located in \_\_\_\_\_.

- A Kerala
- B Assam
- C Odisha
- D Tamil Nadu

**Answer: C**

**Question 49**

Which Article of the Indian Constitution prohibits discrimination on the grounds of religion, race, caste, sex and place of birth?

- A Article 19
- B Article 23
- C Article 25
- D Article 15

Answer: D

**Question 50**

Asia's largest wholesale spice market is located in \_\_\_\_\_.

- A Bengaluru
- B Ahmedabad
- C Kolkata
- D Delhi

Answer: D

## SSC CGL Free Mock Test

### Quantitative Aptitude

**Instructions**

For the following questions answer them individually

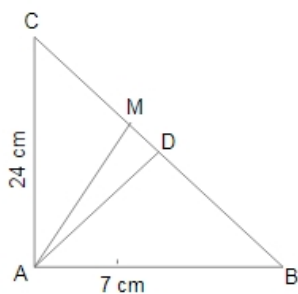
**Question 51**

In  $\triangle ABC$ ,  $\angle A = 90^\circ$ ,  $M$  is the midpoint of  $BC$  and  $D$  is a point on  $BC$  such that  $AD \perp BC$ . If  $AB = 7$  cm and  $AC = 24$  cm, then  $AD : AM$  is equal to:

- A 32 : 43
- B 24 : 25
- C 336 : 625
- D 168 : 275

Answer: C

**Explanation:**



By triplet 7-24-25,

$BC = 25$  cm

$M$  is the midpoint of  $BC$  so,

$$BM = \frac{BC}{2}$$

$$BM = 25/2 = 12.5 \text{ cm}$$

By property,

$$AM = BM = 12.5 \text{ cm}$$

$AD \perp BC$  so,

$$BC \cdot AD = AC \cdot AB$$

$$25 \times AD = 7 \times 24$$

$$AD = 168/25 = 6.72$$

$$AD : AM = 6.72 : 12.5 = 336 : 625$$

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### Question 52

On simplification,  $\frac{x^3 - y^3}{x[(x+y)^2 - 3xy]} \div \frac{y[(x-y)^2 + 3xy]}{x^3 + y^3} \times \frac{(x+y)^2 - (x-y)^2}{x^2 - y^2}$  is equal to:

A 4

B 1

C  $\frac{1}{2}$

D  $\frac{1}{4}$

Answer: A

Explanation:

$$\begin{aligned} & \frac{x^3 - y^3}{x[(x+y)^2 - 3xy]} \div \frac{y[(x-y)^2 + 3xy]}{x^3 + y^3} \times \frac{(x+y)^2 - (x-y)^2}{x^2 - y^2} \\ &= \frac{x^3 - y^3}{x[(x+y)^2 - 3xy]} \times \frac{x^3 + y^3}{y[(x-y)^2 + 3xy]} \times \frac{(x+y)^2 - (x-y)^2}{x^2 - y^2} \\ &= \frac{(x-y)(x^2 + xy + y^2)}{x[(x+y)^2 - 3xy]} \times \frac{(x+y)(x^2 - xy + y^2)}{y[(x-y)^2 + 3xy]} \times \frac{(x^2 + y^2 + 2xy) - (x^2 + y^2 - 2xy)}{(x+y)(x-y)} \\ &= \frac{x^2 + xy + y^2}{x[x^2 - xy + y^2]} \times \frac{x^2 - xy + y^2}{y[x^2 + xy + y^2]} \times 4xy = 4 \end{aligned}$$

### Question 53

If  $5x + \frac{1}{3x} = 4$ , then what is the value of  $9x^2 + \frac{1}{25x^2}$ ?

A  $\frac{174}{125}$

B  $\frac{119}{25}$

C  $\frac{144}{125}$

D  $\frac{114}{25}$

Answer: D

Explanation:

$$\begin{aligned} 5x + \frac{1}{3x} &= 4 \\ \frac{3}{5} \left( 5x + \frac{1}{3x} \right) &= \frac{3}{5} \times 4 \\ \left( 3x + \frac{1}{5x} \right) &= \frac{12}{5} \end{aligned}$$

On square both sides,

$$(3x + \frac{1}{5x})^2 = (\frac{12}{5})^2$$

$$9x^2 + \frac{1}{25x^2} + 2 \cdot 3x \cdot \frac{1}{5x} = \frac{144}{25}$$

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

$$9x^2 + \frac{1}{25x^2} = \frac{144}{25} - \frac{6}{5} = 0$$

$$9x^2 + \frac{1}{25x^2} = \frac{114}{25}$$

#### Question 54

The given table represents the number of computers sold by four dealers A, B, C and D during the first six months of 2016. Study the table carefully and answer the question that follows.

Dealer →	A	B	C	D
Month ↓				
January	102	92	95	107
February	94	96	104	106
March	85	94	100	90
April	108	97	99	96
May	98	102	100	89
June	95	108	102	91

The total number of computers sold by dealer A during February to June is what percentage more than the total number of computers sold by all the dealers in June? (Correct to one decimal place)

- A 25.3
- B 21.2
- C 24.4
- D 17.5

Answer: B

#### Explanation:

The total number of computers sold by dealer A during February to June =  $94 + 85 + 108 + 98 + 95 = 480$

Total number of computers sold by all the dealers in June =  $95 + 108 + 102 + 91 = 396$

$$\text{Required percentage} = \frac{480 - 396}{396} \times 100 = \frac{84}{396} \times 100 = 21.2\%$$

## SSC CGL Previous Papers (DOWNLOAD PDF)

#### Question 55

The average of twelve numbers is 45.5. The average of the first four numbers is 41.5 and that of the next five numbers is 48. The 10<sup>th</sup> number is 4 more than the 11<sup>th</sup> number and 9 more than the 12<sup>th</sup> number. What is the average of the 10<sup>th</sup> and 12<sup>th</sup> numbers?

- A 47
- B 47.8
- C 46
- D 46.6

Answer: D

#### Explanation:

The average of 12 numbers = 45.5

$$\text{Sum of 12 numbers} = \text{average} \times \text{numbers} = 45.5 \times 12 = 546$$

The average of the first four numbers = 41.5

Sum of first four numbers =  $41.5 \times 4 = 166$

The average of next five numbers = 48

Sum of next five numbers =  $48 \times 5 = 240$

Sum of the first 9 numbers = sum of first four numbers + sum of next five numbers =  $166 + 240 = 406$

10th number = 4 + 11th number ---(1)

10th number = 9 + 12th number ---(2)

Sum of the first 9 numbers + 10th number + 11th number + 12th number = 546

$406 + 10\text{th number} + 10\text{th number} - 4 + 10\text{th number} - 9 = 546$

$3 \times 10\text{th number} = 546 - 406 + 4 + 9$

$3 \times 10\text{th number} = 153$

10th number = 51

From eq(1),

11th number = 10th number - 4 =  $51 - 4 = 47$

12th number = 10th number - 9 =  $51 - 9 = 42$

The average of the 10<sup>th</sup> and 12<sup>th</sup> numbers =  $\frac{51 + 47 + 42}{3} = 140/3 = 46.6$

#### Question 56

The value of  $\frac{\tan 30^\circ \operatorname{cosec} 60^\circ + \tan 60^\circ \sec 30^\circ}{\sin^2 30^\circ + 4 \cot^2 45^\circ - \sec^2 60^\circ}$  is:

A  $\frac{2}{3}$

B  $\frac{32}{99}$

C  $\frac{8}{3}$

D  $\frac{32}{3}$

Answer: D

#### Explanation:

$$\frac{\tan 30^\circ \operatorname{cosec} 60^\circ + \tan 60^\circ \sec 30^\circ}{\sin^2 30^\circ + 4 \cot^2 45^\circ - \sec^2 60^\circ}$$

On put the values,

$$\frac{\frac{1}{\sqrt{3}} \times \frac{2}{\sqrt{3}} + \sqrt{3} \times \frac{2}{\sqrt{3}}}{\left(\frac{1}{2}\right)^2 + 4 \times 1 - 2^2}$$

$$= \frac{\frac{2}{3} + 2}{4 + 4 - 4}$$

$$= \frac{\frac{8}{3}}{4}$$

$$= \frac{32}{3}$$

#### Question 57

Sonu saves 15% of her income. If her income increases by 20% and she still saves the same amount as before, then what is the percentage increase in her expenditure? (correct to one decimal place)

A 23.5

B 22.8

C 23.8

D 242

**Answer: A**

**Explanation:**

Let the initially income of Sonu be Rs.100.

saving = 15%

Expenditure =  $100 - 15 = 85\%$

Saving =  $100 - 85 = \text{Rs.}15$

Expenditure = 85% of 100 = Rs.85

Income after increment =  $100 \times \frac{120}{100} = \text{Rs.}120$

Saving = 15

Expenditure =  $120 - 15 = 105$

Increment in expenditure =  $105 - 85 = \text{Rs.}20$

Percentage Increment in expenditure =  $\frac{20}{85} \times 100 = 23.52\%$

## 25 SSC CHSL Mocks for just Rs. 149

**Question 58**

When 732 is divided by a positive integer x, the remainder is 12. How many values of x are there?

A 19

B 18

C 20

D 16

**Answer: C**

**Explanation:**

Number which fully divide by a positive integer x = number - remainder =  $732 - 12 = 720$

720 is fully divide by positive integer x.

Factor of 720 =  $2^4 \times 3^2 \times 5$

Total factor =  $(4 + 1) \cdot (2 + 1) \cdot (1 + 1) = 5 \cdot 3 \cdot 2 = 30$

We combinations of these factors which are more than 12 and maximum 720 because remainder is 12.

Combination less than 13 = 1, 2, 3, 4, 5, 6, 8, 9, 10, 12

Number of combination less than 13 = 10

Number of values of x =  $30 - 10 = 20$

**Question 59**

The circumference of the base of a conical tent is 66 m. If the height of the tent is 36 m, what is the area (in  $\text{m}^2$ ) of the canvas used in making the tent? (Take  $\pi = \frac{22}{7}$ )

A 1237.5

B 1171.5



- C 1254  
D 1155

Answer: A

**Explanation:**

The circumference of the base of a conical tent = 66 m

$$2\pi r = 66$$

$$r = \frac{33}{7} = 21/2 \text{ m}$$

$$h = 36 \text{ m}$$

$$l = \sqrt{r^2 + h^2}$$

$$= \sqrt{\left(\frac{21}{2}\right)^2 + 36^2} = \sqrt{\frac{441}{4} + 1296}$$

$$= 75/2 = 37.5$$

$$\text{Area of canvas} = \pi r l = \frac{22}{7} \times \frac{21}{2} \times 37.5 = 1237.5 \text{ sqm}$$

**Question 60**

If  $a + b + c = 11$ ,  $ab + bc + ca = 3$  and  $abc = -135$ , then what is the value of  $a^3 + b^3 + c^3$ ?

- A 827  
B 929  
C 823  
D 925

Answer: A

**Explanation:**

$$a^3 + b^3 + c^3$$

$$= (a + b + c)[(a + b + c)^2 - 3(ab + bc + ac)] + 3abc$$

$$= (11)[(11)^2 - 3(3)] + 3 \times (-135)$$

$$= (11)[112] - 405$$

$$= 1132 - 405 = 827$$

## SSC CGL Tier-2 Previous Papers PDF

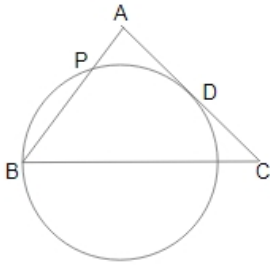
**Question 61**

In  $\triangle ABC$ ,  $AB = AC$ . A circle drawn through B touches AC at D and intersect AB at P. If D is the mid point of AC and AP 2.5 cm, then AB is equal to:

- A 9 cm  
B 10 cm  
C 7.5 cm  
D 12.5 cm

Answer: B

**Explanation:**



Given D is midpoint of AC so,

$$AD = \frac{AC}{2}$$

But also given AC = AB

$$AD = \frac{AB}{2} \text{ ---(1)}$$

AD is a tangent and APB is a secant. So the tangent secant theorem can be applied,

$$AD^2 = AP \times AB$$

$$\left(\frac{AB}{2}\right)^2 = 2.5 \times AB$$

$$\frac{AB^2}{4} = 2.5 \times AB$$

$$AB = 10 \text{ cm}$$

#### Question 62

If  $5 \sin^2 \theta + 14 \cos \theta = 13$ ,  $0^\circ < \theta < 90^\circ$ , then what is the value of  $\frac{\sec \theta + \cot \theta}{\operatorname{cosec} \theta + \tan \theta}$ ?

A  $\frac{40}{29}$

B  $\frac{32}{27}$

C  $\frac{21}{28}$

D  $\frac{9}{8}$

Answer: A

#### Explanation:

$$5 \sin^2 \theta + 14 \cos \theta = 13$$

$$5(1 - \cos^2 \theta) + 14 \cos \theta = 13$$

$$-5 \cos^2 \theta + 14 \cos \theta = 8$$

$$5 \cos^2 \theta - 10 \cos \theta - 4 \cos \theta + 8 = 0$$

$$5 \cos \theta (\cos \theta - 2) - 4 (\cos \theta - 2) = 0$$

$$(5 \cos \theta - 4)(\cos \theta - 2) = 0$$

$$(\cos \theta - 2) \text{ (it is not possible)}$$

$$\text{For } 0^\circ < \theta < 90^\circ,$$

$$(5 \cos \theta - 4) = 0$$

$$\cos \theta = \frac{4}{5}$$

by triplet 3-4-5,

$$\sin \theta = \frac{3}{5}$$

Now,

$$\frac{\sec \theta + \cot \theta}{\operatorname{cosec} \theta + \tan \theta}$$

$$\sec \theta(1 + \sin \theta)$$

$$= \sec \theta(\operatorname{cosec} \theta \cos \theta + \sin \theta)$$

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

$$= \frac{1}{\frac{3}{5}} + \frac{4}{5}$$

$$= \frac{5}{3} + \frac{4}{5}$$

$$= \frac{5 \times 5 + 3 \times 4}{3 \times 5}$$

$$= \frac{25 + 12}{15} = \frac{37}{15}$$

**Question 63**

The value of  $\frac{7 - [4 + 3(2 - 2 \times 2 + 5) - 8] \div 5}{2 \div 2 \text{ of } (4 + 4 \div 4 \text{ of } 4)}$  is:

- A  $8\frac{1}{2}$
- B 24
- C  $25\frac{1}{2}$
- D 26

**Answer: C**

**Explanation:**

$$\frac{7 - [4 + 3(2 - 2 \times 2 + 5) - 8] \div 5}{2 \div 2 \text{ of } (4 + 4 \div 4 \text{ of } 4)}$$

$$= \frac{7 - [4 + 3(2 - 4 + 5) - 8] \div 5}{2 \div 2 \text{ of } (4 + 4 \div 16)}$$

$$= \frac{7 - [4 + 3(3) - 8] \div 5}{2 \div 2 \text{ of } (4 + 4)}$$

$$= \frac{7 - 5 \div \frac{5}{1}}{2 \div 2 \text{ of } 4}$$

$$= \frac{7 - 1}{2 \div 2}$$

$$= 2 \times \frac{6}{2}$$

$$= \frac{51}{2} = 25\frac{1}{2}$$

**SSC CGL Important Questions PDF**

**Question 64**

If  $2x + 1$ ,  $x + 2$ , 2 and 5 are in proportion, then what is the mean proportional between  $3.5(1 - x)$  and  $8(1 + x)$ ?

- A 5.5
- B 5.25
- C 4.25
- D 4.5

Answer: B

Explanation:

$2x + 1$ ,  $x + 2$ , 2 and 5 are in proportion. So,

$$\frac{2x+1}{x+2} = \frac{2}{5}$$

$$(2x + 1) \times 5 = (x + 2) \times 2$$

$$10x + 5 = 2x + 4$$

$$8x = -1$$

$$x = -1/8$$

Mean proportional between  $3.5(1 - x)$  and  $8(1 + x)$

Numbers =  $3.5(1 + 1/8)$  and  $8(1 - 1/8) = 31.5/8$  and 7

$$\text{Mean proportional} = \sqrt{\left(\frac{31.5}{8} \times 7\right)} = \sqrt{27.5625} = 5.25$$

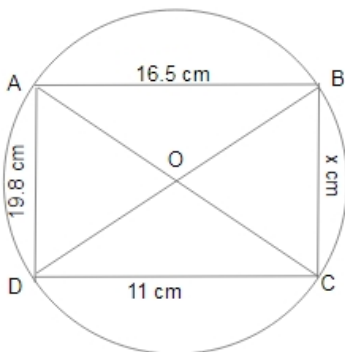
Question 65

ABCD is a cyclic quadrilateral in which  $AB = 16.5$  cm,  $BC = x$  cm,  $CD = 11$  cm,  $AD = 19.8$  cm, and  $BD$  is bisected by  $AC$  at  $O$ . What is the value of  $x$ ?

- A 12.8 cm
- B 12.4 cm
- C 13.2 cm
- D 13.8 cm

Answer: C

Explanation:



ABCD is a cyclic quadrilateral in which  $AB = 16.5$  cm

$BC = x$  cm

$CD = 11$  cm

$AD = 19.8$  cm

By the property,

$$AB \cdot BC = AD \cdot DC$$

$$16.5 \times x = 19.8 \times 11$$

$$16.5 \times x = 217.8$$

$$x = 217.8/16.5 = 13.2 \text{ cm}$$

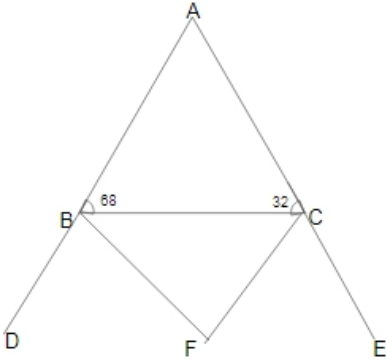
Question 66

In  $\triangle ABC$ ,  $\angle B = 68^\circ$  and  $\angle C = 32^\circ$ . Sides  $AB$  and  $AC$  are produced to points  $D$  and  $E$ , respectively. The bisectors of  $\angle DBC$  and  $\angle BCE$  meet at  $F$ . What is the measure of  $\angle BFC$ ?

- A  $39^\circ$
- B  $65^\circ$
- C  $55^\circ$
- D  $50^\circ$

Answer: D

Explanation:



From the angle bisector property,

$$\angle BFC = 90^\circ - \frac{\angle A}{2}$$

In *triangle ABC*,

$$\angle A + \angle B + \angle C = 180^\circ$$

$$\angle A = 180 - 32 - 68 = 80^\circ$$

$$\angle BFC = 90^\circ - \frac{80^\circ}{2}$$

$$\angle BFC = 50^\circ$$

## 1500 + Free Must Solved SSC Questions (With Solutions)

Question 67

A trader allows a discount of 18% on the marked price of an article. How much percentage above the cost price must he mark it so as to get a profit of 6.6%?

- A 30
- B 24
- C 28
- D 25

Answer: A

Explanation:

Let the cost price be Rs.100.

$$\text{Profit} = 6.6\% = 6.6$$

$$\text{Selling price} = 100 + 6.6 = \text{Rs.}106.6$$

$$\text{Discount} = 18\%$$

Let the the marked price be 100%.

$$\text{Selling price} = 100 - 18 = 82\%$$

$$106.6 = 82\%$$

$$100\%(\text{marked price}) = \frac{106.6}{82} \times 100 = 130$$

$$\text{Percentage above the cost price must he mark} = \frac{130-100}{100} \times 100 = 30\%$$

### Question 68

The given table represents the number of computers sold by four dealers A, B, C and D during the first six months of 2016. Study the table carefully and answer the question that follows.

Dealer → Month ↓	A	B	C	D
January	102	92	95	107
February	94	96	104	106
March	85	94	100	90
April	108	97	99	96
May	98	102	100	89
June	95	108	102	91

The total number of computers sold by dealer B in April, May and June is what percentage of the total number of computers sold by all the dealers in February and April?

A  $48\frac{5}{7}$

B  $43\frac{6}{7}$

C  $38\frac{3}{8}$

D  $50\frac{7}{8}$

Answer: C

### Explanation:

The total number of computers sold by dealer B in April, May and June =  $97 + 102 + 108 = 307$

The total number of computers sold by all the dealers in February and April =  $94 + 96 + 104 + 106 + 108 + 97 + 99 + 96 = 800$

$$\text{Required percentage} = \frac{307}{800} \times 100 = 38\frac{3}{8}\%$$

### Question 69

A boat can go 3 km upstream and 5 km downstream in 55 minutes. It can also go 4 km upstream and 9 km downstream in 1 hour 25 minutes. In how much time(in hours) will it go 43.2 km downstream?

A 3.6

B 4.4

C 5.4

D 4.8

Answer: A

### Explanation:

Let the speed of stream be  $u$  and speed of boat be  $v$ .

$$\text{Speed in upstream} = v - u$$

$$\text{Speed in downstream} = v + u$$

A boat can go 3 km upstream and 5 km downstream in 55 minutes so,

$$\frac{3}{v-u} + \frac{5}{v+u} = \frac{55}{60}$$

Boat can go 4 km upstream and 9 km downstream in 1 hour 25 minutes

$$\frac{4}{v-u} + \frac{9}{v+u} = 1 + \frac{25}{60}$$

$$\frac{4}{v-u} + \frac{9}{v+u} = \frac{85}{60}$$

$$\frac{1}{v-u} = x$$

$$\frac{1}{v+u} = y$$

$$3x + 5y = \frac{11}{12} \text{ ---(1)}$$

$$4x + 9y = \frac{17}{12} \text{ ---(2)}$$

eq(1) multiply by 4 and eq(2) multiply by 3,

$$12x + 20y = \frac{44}{12} \text{ ---(3)}$$

$$12x + 27y = \frac{51}{12} \text{ ---(4)}$$

From eq (3) and (4),

$$7y = \frac{7}{12}$$

$$y = \frac{1}{12}$$

From eq(1),

$$3x + 5 \times \frac{1}{12} = \frac{11}{12}$$

$$3x = \frac{6}{12}$$

$$x = \frac{1}{6}$$

$$\frac{1}{v-u} = \frac{1}{6}$$

$$v - u = 6 \text{ ---(5)}$$

$$\frac{1}{v+u} = \frac{1}{12}$$

$$v + u = 12 \text{ ---(6)}$$

Speed in downstream =  $u + v = 12$  km/hr

Time taken by boat =  $43.6/12 = 3.63$  hr

## General Science Notes for SSC CGL

### Question 70

What is the compound interest on a sum of ₹12,000 for  $2\frac{5}{8}$  years at 8% p.a., when the interest is compounded annually? (nearest to a rupee)

A ₹2,642

B ₹2,697

C ₹2,712

D ₹2,654

Answer: B

Explanation:

Time =  $2\frac{5}{8}$  years =  $2 + \frac{5}{8}$  years

We find the interest for the first  $5/8$  year by simple interest

Simple interest =  $\frac{prt}{100}$

$p = 12000$

$$r = 8\%$$

$$\text{Simple interest} = \frac{12000 \times 8 \times \frac{5}{8}}{100} = 600$$

Now,

$$p = 12000 + 600 = 12600$$

$$\text{Compound interest} = p\left(1 + \frac{r}{100}\right)^t - p$$

$$= 12600\left(1 + \frac{8}{100}\right)^2 - 12600$$

$$= 12600 \times \frac{108}{100} \times \frac{108}{100} - 12600$$

$$= 14696.64 - 12600 = 2096.64 \approx \text{Rs.}2097$$

$$\text{Total interest} = 2097 + 600 = \text{Rs.}2697$$

### Question 71

If  $\sec \theta - \tan \theta = \frac{x}{y}$ , ( $0 < x < y$ ) and  $0^\circ < \theta < 90^\circ$ , then  $\sin \theta$  is equal to:

A  $\frac{x^2 + y^2}{y^2 - x^2}$

B  $\frac{x^2 + y^2}{2xy}$

C  $\frac{y^2 - x^2}{x^2 + y^2}$

D  $\frac{2xy}{x^2 + y^2}$

Answer: C

Explanation:

$$\sec \theta - \tan \theta = \frac{x}{y} \quad \text{---(1)}$$

$$\sec \theta - \tan \theta = \frac{y}{x}$$

$$\frac{\sec^2 \theta - \tan^2 \theta}{\sec \theta - \tan \theta} = \frac{y}{x}$$

$$\frac{(\sec \theta - \tan \theta)(\sec \theta + \tan \theta)}{\sec \theta - \tan \theta} = \frac{y}{x}$$

$$\sec \theta + \tan \theta = \frac{y}{x} \quad \text{---(2)}$$

From eq(1) and (2),

$$\sec \theta - \tan \theta + \sec \theta + \tan \theta = \frac{x}{y} + \frac{y}{x}$$

$$2 \sec \theta = \frac{x^2 + y^2}{xy}$$

$$\sec \theta = \frac{x^2 + y^2}{2xy}$$

$$\cos \theta = \frac{2xy}{x^2 + y^2}$$

$$\text{Base} = 2xy$$

$$\text{Hypotenuses} = \{x^2 + y^2\}$$

By Pythagoras,

$$(p)^2 + (2xy)^2 = (x^2 + y^2)^2$$

$$\$(p)^2 = x^4 + y^4 + 2x^2y^2 - 4x^2y^2$$

$$\$$p = x^2 - y^2 = y^2 - x^2$$

$$\sin \theta = \frac{p}{h} = \frac{y^2 - x^2}{x^2 + y^2}$$



### Question 72

A person buys 5 tables and 9 chairs for ₹15,400. He sells the tables at 10% profit and chairs at 20% profit. If his total profit on selling all the tables and chairs is ₹2,080, what is the cost price of 3 chairs?

- A ₹1,800
- B ₹1,740
- C ₹1,860
- D ₹1,890

Answer: A

#### Explanation:

Let the price of 9 chairs be  $x$ .

Price of 5 tables =  $15400 - x$

He sells the tables at 10% profit and chairs at 20% profit.

Total profit = 2080

$$(15400 - x) \frac{10}{100} + x \frac{20}{100} = 2080$$

$$(15400 - x) + x \times 2 = 20800$$

$$15400 - x + 2x = 20800$$

$$x = 5400$$

Price of 9 chairs = 5400

Price of 3 chairs =  $5400/3 = \text{Rs.}1800$

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

### Instructions

The given table represents the number of computers sold by four dealers A, B, C and D during the first six months of 2016. Study the table carefully and answer the question that follows.

Dealer →	A	B	C	D
Month ↓				
January	102	92	95	107
February	94	96	104	106
March	85	94	100	90
April	108	97	99	96
May	98	102	100	89
June	95	108	102	91

### Question 73

The number of months, in which the number of computers sold by dealer B was less than the average number of computers sold by dealer C over six months, was:

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

Answer: A

#### Explanation:

Average number of computers sold by dealer C over six months =  $\frac{\text{total number of computer}}{6} = \frac{95+104+100+99+100+102}{6} = 600/6 = 100$

The number of months, in which the number of computers sold by dealer B was less than the average number of computers sold by dealer C over six months, was 4 (January, Feb, March, April)

#### Question 74

What is the ratio of the total number of computers sold by dealer A in February, April and May to the total number of computers sold by dealer D in March, May and June?

- A 10 : 9
- B 6 : 5
- C 15 : 13
- D 20 : 27

Answer: A

#### Explanation:

The total number of computers sold by dealer A in February, April and May =  $94 + 108 + 98 = 300$

The total number of computers sold by dealer D in March, May and June =  $90 + 89 + 91 = 270$

Ratio of the total number of computers sold by dealer A in February, April and May to the total number of computers sold by dealer D in March, May and June =  $300 : 270$

= 10 : 9

#### Instructions

For the following questions answer them individually

#### Question 75

A can complete a certain work in 30 days. B is 25% more efficient than A and C is 20% more efficient than B. They all worked together for 3 days. B alone will complete the remaining work in:

- A 18 days
- B 12 days
- C 20 days
- D 15 days

Answer: D

#### Explanation:

Let the efficiency of A be  $x$ .

Efficiency of B = 25% more efficient than A =  $1.25x$

Efficiency of C = 20% more efficient than B =  $1.25x \times \frac{120}{100} = 1.5x$

Efficiency ratio of A, B and C =  $x : 1.25x : 1.5x = 4 : 5 : 6$

Total work = efficiency  $\times$  time =  $4 \times 30 = 120$  units

3 days work =  $(4 + 5 + 6) \times 3 = 15 \times 3 = 45$  units

Remaining work =  $120 - 45 = 75$  units

Time taken to complete work by B =  $75/5 = 15$  days

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English Comprehension

**Instructions**

For the following questions answer them individually

**Question 76**

Select the correct active form of the given sentence.  
This beautiful story was written by Maya.

- A Maya was writing this beautiful story.
- B Maya writes this beautiful story.
- C Maya is writing this beautiful story.
- D Maya wrote this beautiful story.

**Answer: D**

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**Question 77**

Select the wrongly spelt word.

- A Compromise
- B Consumation
- C Competence
- D Chronology

**Answer: B**

**Question 78**

Select the most appropriate meaning of the given idiom.  
Back to square one

- A Draw a square
- B Neglect something
- C Move ahead
- D Come to the original point

**Answer: D**

**Question 79**

Select the wrongly spelt word.

- A Turmoil
- B Tresure
- C Truthful
- D Tamarind

**Answer: B**

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### Question 80

Select the antonym of the given word.

**LIBERTY**

- A Independence
- B Deliverance
- C Convenience
- D Dependence

**Answer: D**

### Question 81

Select the most appropriate word to substitute the underlined word of the given sentence. If substitution is not required select 'No improvement'.

To fight on the battlefield for the sake of one's country needs a great strongness.

- A the greatest strongness
- B a lots of strength
- C No improvement
- D great courage

**Answer: D**

### Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

#### Comprehension:

'A stitch in time saves nine'. This wise saying suggests that an (1)\_\_\_\_\_ action taken on time to rectify an error rules (2)\_\_\_\_\_ the possibility of accumulation of such errors and future (3)\_\_\_\_\_. Wisdom, therefore lies in correcting the error as soon as it is (4)\_\_\_\_\_. There is no point in allowing the (5)\_\_\_\_\_ to grow and then take hasty actions to set things right.

### Question 82

Select the most appropriate option for blank no. 1

- A superficial
- B wrong
- C appropriate
- D opposite

**Answer: C**

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### Question 83

Select the most appropriate option for blank no. 2

- A in
- B at
- C out
- D for

**Answer: C**

**Question 84**

Select the most appropriate option for blank no. 3

- A qualities
- B facilities
- C damages
- D advantages

**Answer: C**

**Question 85**

Select the most appropriate option for blank no. 4

- A discovered
- B managed
- C proposed
- D invented

**Answer: A**

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**Question 86**

Select the most appropriate option for blank no. 5

- A parody
- B remedy
- C malady
- D melody

**Answer: C**

**Instructions**

For the following questions answer them individually

**Question 87**

Select one word for the following group of words.  
Open refusal to obey orders

- A Defiance
- B Compliance
- C Obedience
- D Adherence

Answer: A

**Question 88**

Select the synonym of the given word.  
**PREVENT**

- A Construct
- B Provoke
- C Allow
- D Avert

Answer: D

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**Question 89**

Select one word for the following group of words.  
**Morals that govern one's behavior**

- A Intuition
- B Attitude
- C Psychology
- D Ethics

Answer: D

**Question 90**

Select the antonym of the given word.  
**BROAD**

- A Long
- B Narrow
- C Wide
- D Large

Answer: B

**Instructions**

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

Question 91

- A. Eventually, she overcame adversities and achieved success.
- B. She engaged herself in 'earn while you learn', finance scheme in her college.
- C. She needed financial support to complete her graduation.
- D. Rama was a very poor girl.

A ADCB

B ABCD

C DCBA

D CBDA

Answer: C

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Question 92

- A. "We are going to the market," declared Reetu and Geetu.
- B. "Where are you going?" the father asked.
- C. "Take your umbrella, it is going to rain," the mother said.
- D. "Yes, definitely. We will," replied the two.

A ABDC

B DCAB

C BCDA

D BACD

Answer: D

**Instructions**

For the following questions answer them individually

Question 93

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

The boy which stole the money was caught by the police.

A was caught

B stole the money

C by the police

D The boy which

Answer: D

Question 94

Select the most appropriate meaning of the given idiom.

Dead heat

A A strong heat wave

B Strong opposition to one's ideas

- C A deadly blast of hot air
- D Close contest that ends in a tie

Answer: D

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### Question 95

In the sentence identify the segment which contains the grammatical error.  
Saraswati college has maintained its reputation as one of the best college in the country.

- A Saraswati college has maintained
- B one of the best college
- C in the country
- D its reputation as

Answer: B

### Question 96

Select the most appropriate word to fill in the blank.  
She \_\_\_\_\_ on paying the bill at the restaurant.

- A offered
- B suggested
- C insisted
- D requested

Answer: C

### Question 97

Select the most appropriate segment to substitute the underlined segment of the given sentence. If substitution is not required select 'no improvement'.

The animal resembled with a cat.

- A No improvement
- B resembled by
- C resembled
- D resembled to

Answer: C

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### Question 98

Select the most appropriate word to fill in the blank.  
The groom stood before the \_\_\_\_\_ for the wedding ceremony at the church.



- A alter
- B atlas
- C altar
- D attic

Answer: C

**Question 99**

Select the correct direct form of the given sentence.  
The teacher commanded the students not to shout.

- A The teacher said to the student, "You should not shout."
- B The teacher told to the students, "You must not shout."
- C The teacher said to the students, "Don't shout."
- D The teacher says to the students, "Do not shout."

Answer: C

**Question 100**

Select the synonym of the given word.

REVERE

- A Repeat
- B Respect
- C Condemn
- D Enjoy

Answer: B

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