



## SSC CGL 4 June 2019 Shift-2

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# Reasoning

## Instructions

For the following questions answer them individually

### Question 1

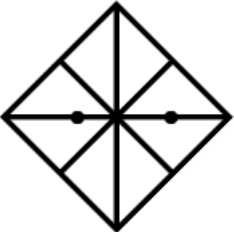
Select the option in which the given figure is embedded.



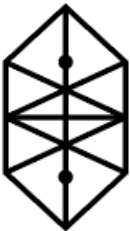
A



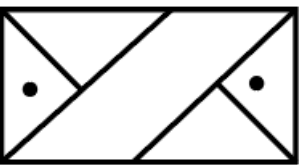
B



C



D

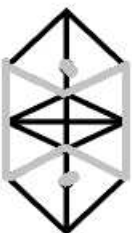


Answer: C

## Explanation:

The image is given in the question,

We can see that the given pattern is available in the option C, which is highlighted in the given image.



### Question 2

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

$$18 + 6 - 6 \div 3 \times 3 = 6$$

A + and -

B + and  $\div$

C + and  $\times$

D - and  $\div$

Answer: B

#### Explanation:

As per the given question,

$$18 + 6 - 6 \div 3 \times 3 = 6$$

By interchanging the sign + and  $\div$

$$\text{then } 18 \div 6 - 6 + 3 \times 3 = 3 - 6 + 9 = 6$$

Hence, the correct answer is option B.

### Question 3

Select the combination of letters that when sequentially placed in the gaps of the given letter series will complete the series.  
ac\_d\_b\_cbdd\_a\_bddb.

A bdabc

B bdcab

C cbdbc

D bdbca

Answer: A

#### Explanation:

As per the the pattern given in the question,

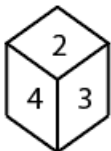
There is 18 letter, in the given word, now dividing these terms in the form of 6-6 word pair,

Hence, ac\_d\_b\_cbdd\_a\_bddb = acbdddacbddbacbddd

Hence the correct answer is bdabc, so correct answer is option A.

### Question 4

Two different positions of the same dice are shown. Which number will be at the top if 6 is at the bottom?



A 2

B 3

C 1

D d:

**Answer: B**

**Explanation:**

From the given image,

In the dice 1- 1 and 5 are the adjacent face of the 3.

In the dice 2- 2 and 4 are the adjacent face of the 3.

When we will overlap these two dice, then we can conclude that the opposite face of 3 will be 6.

Hence the opposite face of 6 will be 3.

## SSC CGL Previous Papers (DOWNLOAD PDF)

**Question 5**

If **BACK** is coded as 11312 and **CAKE** is coded as 51113, then how will **MADE** be coded as ?

**A** 51413

**B** 54113

**C** 13145

**D** 31145

**Answer: B**

**Explanation:**

As per the given question,

**BACK** -11312

B is the 2nd letter.

A is the 1st letter.

C is the 3rd letter.

K is the 11th letter.

**CAKE** - 51113

C is the 3rd letter.

A is the 1st letter.

K is the 11th letter.

E is the 5th letter.

Alternatively, arranging the number from left to right.

Similarly

M is the 13th letter

A is the 1st letter.

D is the 4th letter.

E is the 5th letter.

So, arranging accordingly,

So, **MADE**- 54113.

**Question 6**

Select the set in which the numbers are related in the same way as are toe numbers of the following set.  
(10,18, 38)

- A (4, 12, 22)
- B (12, 22, 46)
- C (18, 6, 14)
- D (14, 12, 8)

**Answer: B**

**Explanation:**

As per the given question,

(10, 18, 38)

$18 - 10 = 8$  and  $38 - 18 = 20$  hence, from the given terms,  $8 \times 2 + 2^2 = 20$

Similarly,

(12, 22, 46)

$22 - 12 = 10$  and  $46 - 22 = 24$  hence, from the given terms  $10 \times 2 + 2^2 = 24$

Hence the correct answer is option B.

**Question 7**

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

2, 5, 11, 23, 44, ?

- A 63
- B 66
- C 51
- D 77

**Answer: D**

**Explanation:**

As per the given question, the patterns are mentioned below.

2, 5, 11, 23, 44, ?

1st term-  $5 - 2 = 3$

$6 - 3 = 3$

2nd term-  $11 - 5 = 6$

$12 - 6 = 6$

3rd term-  $23 - 11 = 12$

$21 - 12 = 9$

4th term-  $44 - 23 = 21$

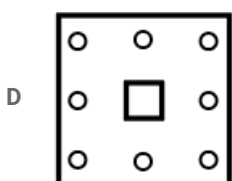
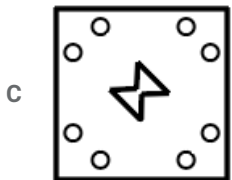
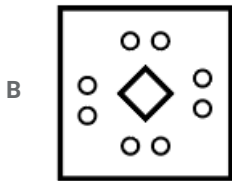
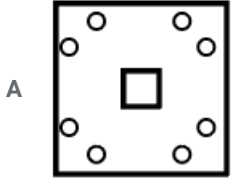
$33 - 21 = 12$

5th term-  $77 - 44 = 33$

Hence, the correct answer is option D.

Question 8

A paper is folded and cut as shown below. How will it appear when unfolded ?

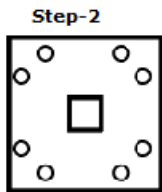
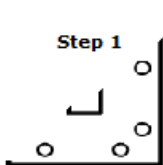


Answer: A

Explanation:

As per the given question,

The steps are mentioned in the diagram, where steps are given in the below image.



Hence, option A is the correct answer.

Question 9

'Action' is related to 'Reaction' in the same way as 'Stimulus' is related to '\_\_\_\_\_'

A Feedback

- B Reception
- C Vision
- D Response

**Answer: D**

**Explanation:**

Reaction is the outcome of action. Similarly Response is the outcome of Stimulus.

Hence, the correct answer is option D.

**Question 10**

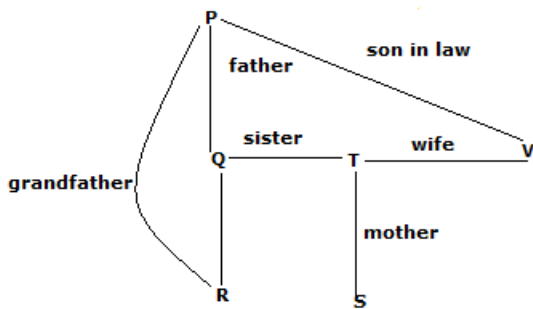
P is the father of Q and the grandfather of R. who is the brother of S. S's mother, T, is married to V. T is the sister of Q. How is V related to P?

- A Son
- B Nephew
- C Son-in-law
- D Brother-in-law

**Answer: C**

**Explanation:**

As per the given statement, the family tree is given below,



Hence V is the son in law of P.

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**Question 11**

10 years ago, a father's age was  $\frac{3}{2}$  times that of his son, and 10 years from now, the father's age will be  $\frac{2}{3}$  times that of the son. What will be the sum of the ages of the father and the son at present?

- A 120 years
- B 115 years
- C 110 years
- D 100 years

**Answer: C**

**Explanation:**

Let the present age of the son is  $x$  years and father's age is  $y$  years.

10 Year before, the age of the son was  $=x-10$  and age of father  $=y-10$

As per the condition given in the question,

$$y - 10 = \frac{7(x - 10)}{2}$$

$$\Rightarrow 2y - 20 = 7x - 70$$

$$\Rightarrow 7x - 2y = 50 \text{ --- (i)}$$

Now, The age of son after 10 year, will be  $x + 10$  and father's age  $= y + 10$

as per the given condition in the question,

$$\Rightarrow y + 10 = \frac{9(x + 10)}{4}$$

$$\Rightarrow 4y + 40 = 9x + 90$$

$$\Rightarrow 9x - 4y = -50 \text{ --- (ii)}$$

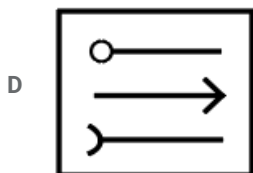
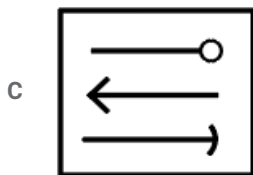
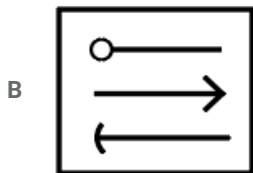
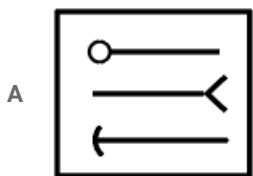
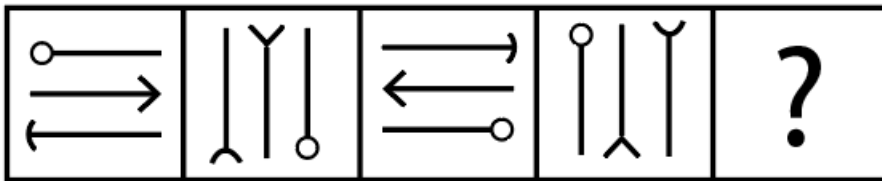
From the equation (i) and (ii),

$$x = 30 \text{ years and } y = 80 \text{ years}$$

Hence the sum of the age  $= 80 + 30 = 110$  years

**Question 12**

Select the figure that will come next in the following figure series.



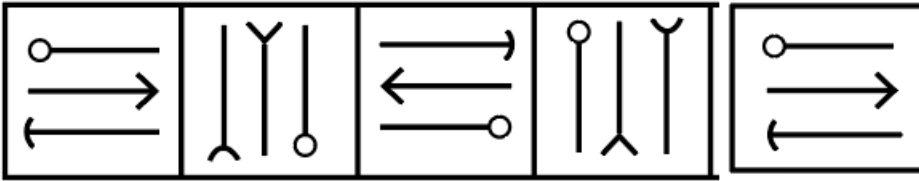
Answer: B



**Explanation:**

In the attached diagram,

The pattern 1, 3 and 5 are following the same pattern and 2, 4 and 6 are following the same pattern, in which it is getting reversed alternatively.



**Question 13**

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

Parents, Rich Persons, Farmers

- A
- B
- C
- D

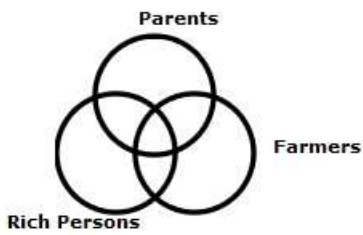
**Answer:** A

**Explanation:**

As per the given data in the question,

Parents, Rich Persons, Farmers

A parents can be a rich person and farmers but it is not compulsory that every parents will be rich persons or Farmers similarly it is valid for the other statements too.



## SSC CGL Important Questions PDF

### Question 14

Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- A 12
- B 14
- C 56
- D 30

**Answer:** B

#### Explanation:

As per the given options in the question, the given terms are related as per the given terms,

$$12 = 4^2 - 4$$

$$56 = 8^2 - 8$$

$$30 = 6^2 - 6$$

But, option B is different from these.

$$14 = 4^2 - 2$$

### Question 15

Select the word-pair in which the two words are related in the same way as are the two words in the following word-pair.  
Hem : sun

- A Ride : Car
- B Atmosphere : Humidity
- C Home : Terrace
- D Vitamin : Fruit

**Answer:** D

#### Explanation:

Sun gives the Hem, same as Fruit gives Vitamin.  
So here option D is the correct answer.

### Question 16

Select the option that is related to the third letter cluster in the same way as the second letter-cluster is related to the first letter-cluster.

BECD : YVXW :: DGEF : ?

- A XUWV
- B WUTV
- C WTVU
- D VRTS

Answer: C

**Explanation:**

As per the given question,

The pattern which is following the question's pattern is given below,

**BECD : YVXW :: DGEF : WTVU**

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**Question 17**

How many triangles are there in the following figure ?

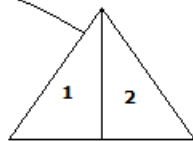


- A 20
- B 14
- C 18
- D 16

Answer: D

**Explanation:**

As per the given question,



Total number of triangle = 2+1=3

There is 4 such pairs, so total number of triangle = 4x3=12

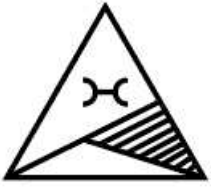


There is 4 such triangles are available in the given diagram

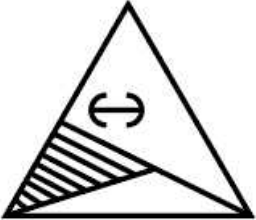
Hence, the total number of triangle =  $12+4=16$

**Question 18**

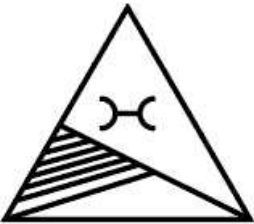
Select the correct mirror image of the given figure when the mirror is placed to the right of the figure.



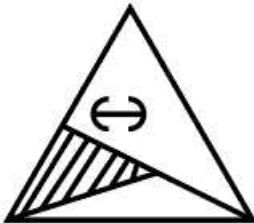
A



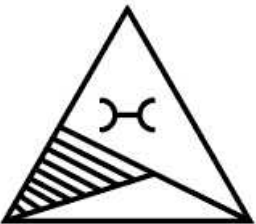
B



C



D

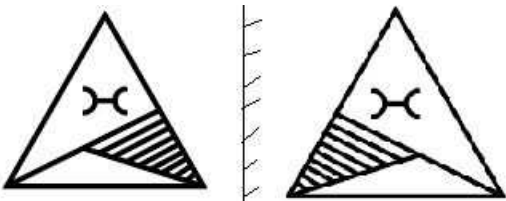


Answer: D

**Explanation:**

As per the given question,

The mirror image of the given diagram is



Hence, the correct answer is option D.

Question 19

Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

Some cars are vehicles.

No vehicle is a four-wheeler.

Conclusions:

I. No car is a four-wheeler.

II. All four-wheelers are cars.

III. Some vehicles are cars.

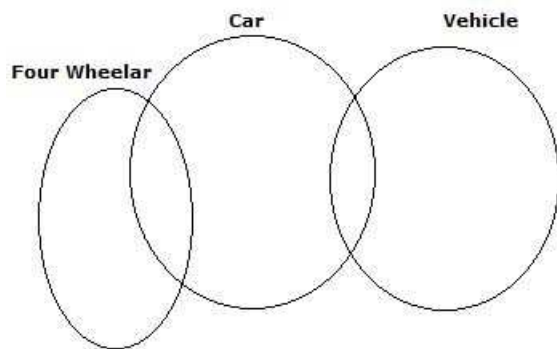
- A Only conclusion III follows
- B Only conclusion I follows
- C All conclusions follow
- D Only conclusions I and II follow

Answer: A

Explanation:

As per the statement given in the question,

The below venn diagram is representing the statement.



Hence, only conclusion iii is following.

## General Science Notes for SSC CGL

Question 20

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

(7, 13, 21)

- A (17, 22, 30)
- B (9, 16, 25)
- C (2, 8, 16)
- D (12, 18, 25)

Answer: C

Explanation:

As per the question,

The given terms is related 7, 13, 21 -

$$13 - 7 = 6 \text{ and } 21 - 13 = 8$$

Similarly, 2,8, 16

$$8 - 2 = 6 \text{ and } 16 - 8 = 8$$

Hence, the correct answer is option 2.

#### Question 21

Select the number-pair in which the two numbers are related in the same way as are the two numbers of the following number-pair 4 : 32

A 5 : 62

B 10 : 160

C 8 : 248

D 6 : 108

Answer: D

#### Explanation:

As per the given question,

$$4^3$$

4:32 is related as  $2^3 = 32$

Similarly,

$$6^3$$

6:108 is related as  $2^3 = 108$

Hence, option D is the correct answer.

#### Question 22

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

A Perseverance

B Firmness

C Tendency

D Tenacity

Answer: C

#### Explanation:

As per the given question,

Perseverance, Firmness and Tenacity are the synonyms of each other. But the word Tendency is have the different meaning of these words.

Perseverance- Doing something despite difficulty.

Tendency- It is type of behavior.

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#### Question 23

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

A HNLJ

B DGEF

C MSOQ

D TWUV

Answer: A

#### Question 24

Arrange the following words in a logical and meaningful order.

1. Medicine
2. Diagnosis
3. Prescription
4. Illness
5. Recovery
6. Doctor

A 4, 6, 3, 2, 1, 5

B 4, 6, 2, 3, 1, 5

C 4, 6, 1, 3, 2, 5

D 2, 6, 4, 1, 3, 5

Answer: B

#### Explanation:

As per the data given in the question,

1. Medicine
2. Diagnosis
3. Prescription
4. Illness
5. Recovery
6. Doctor

The logical order of the given data will be as per the below,

4. Illness 6. Doctor 2. Diagnosis 3. Prescription 1. Medicine 5. Recovery

Hence the correct order is 4,6,2,3,1,5

#### Question 25

In a code language, TEMPLE is written as DKOLDS. How will WORSHIP be written as in that language?

A QJITSPX

B OGHQRVN

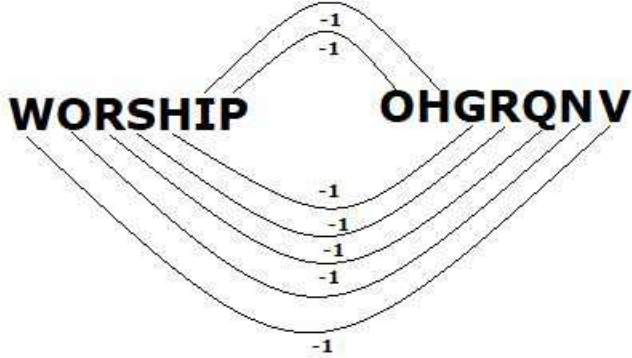
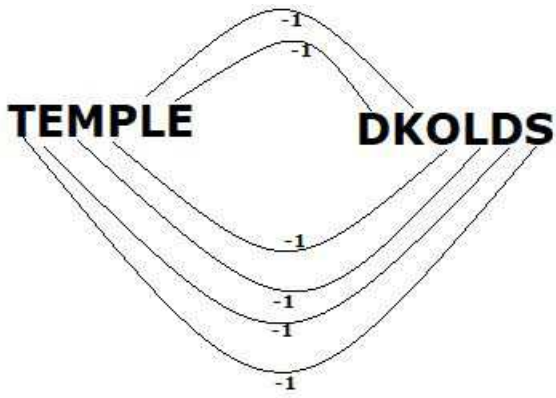
C VNQUHOR

D OHGRQNV

Answer: D

#### Explanation:

As per the given question,



Hence, the answer will be option D.

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### General knowledge

#### Instructions

For the following questions answer them individually

#### Question 26

\_\_\_\_\_ is a group folk dance of Sikkim performed in honour of Mount Khangchendzonga, the guardian deity of the Sikkimese people.

- A Chu-Faat
- B Tendong Lo Rum Faat
- C Kinchum-Chu-Bomsa
- D Zo-Mal-Lok

Answer: A

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#### Question 27

The idea of residual powers in Indian constitution has been taken from the constitution of:

- A Canada
- B USA
- C Japan
- D South Africa

Answer: A



**Question 28**

Which of the following is the first working prototype of Internet?

- A PANET
- B ARPANET
- C APNET
- D ANET

**Answer: B**

**Question 29**

\_\_\_ is the traditional musical instrument of the Limboo community of Sikkim.

- A Chyap-Brung
- B Chutkay
- C Naumati
- D Jeurum Silly

**Answer: A**

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**Question 30**

Who was the founder of the Chalukya dynasty ?

- A Mangalesa
- B Kirtivarman
- C Narasimhavarman
- D Pulakesin I

**Answer: D**

**Question 31**

Which of the following Articles of the Constitution of India deals with the Uniform Civil Code?

- A Article 43
- B Article 46
- C Article 44
- D Article 45

**Answer: C**

**Question 32**

Name the first Indian budget carrier to join the International Air Transport Association (IATA).

- A Indigo
- B Jet Airways
- C SpiceJet
- D GoAir

Answer: C

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**Question 33**

How many great powers (Mahajanpadas) existed in the 7th and early 6th centuries BC, during the life time of Lord Gautam Buddha?

- A 16
- B 13
- C 11
- D 17

Answer: A

**Question 34**

Which panel set up by the Government of India suggested total decontrol of the sugar industry?

- A Sri Krishna Panel
- B RadheShyam Panel
- C RamSevak Panel
- D Rangarajan Panel

Answer: D

**Question 35**

In India, the Project Tiger was started in \_\_\_\_\_.

- A 1982
- B 1992
- C 1979
- D 1973

Answer: D

## SSC CHSL Previous Question papers (download pdf)

### Question 36

Which of the following Public Sector Undertakings was accorded the Maharatna in February 2013 ?

- A ONGC
- B OIL
- C BHEL
- D CIL

Answer: C

### Question 37

Who was the first ever female secretary general of SAARC (South Asian Association for Regional Cooperation)?

- A Fathimath Dhiyana Saeed
- B Jeremiah Nyamane Kingsley
- C António Guterres
- D Madeleine Albright

Answer: A

### Question 38

Which of the following states passed the Maintenance of Household Registers Bill in March 2019?

- A Assam
- B Mizoram
- C Odisha
- D West Bengal

Answer: B

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

### Question 39

Which of the following Biosphere Reserves was the first to be established by the Government of India?

- A Sundarb Biosphere Reserve
- B Nanda Devi Biosphere Reserve
- C Gulf of Mannar Biosphere Reserve
- D Nilgiri Biosphere Reserve

Answer: D

**Question 40**

**Buckminsterfullerene is an allotrope of:**

- A Phosphorus
- B Boron
- C Carbon
- D Iron

**Answer: C**

**Question 41**

**Which of the following is NOT one of the monarchical states that existed in the 7th and early 6th centuries BC in India?**

- A Magadha
- B Avanti
- C Vaishali
- D Kosala

**Answer: C**

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**Question 42**

**Which of the following is an aldehyde?**

- A Propine
- B Propanol
- C Propanal
- D Propanone

**Answer: C**

**Question 43**

**Name the pass in Uttarakhand which is used by pilgrims to Kailash-Mansarovar Yatra.**

- A Lipu Lekh
- B Pensi La
- C Khardung La
- D Banihal Pass

**Answer: A**

**Question 44**

**Name the first ever female prime minister in the world.**

- A Sirimavo Bandaranaike
- B Elisabeth Domitien
- C Golda Meir
- D Indira Gandhi

**Answer: A**

## SSC CGL Free Mock Test

### Question 45

Which team won the Ranji Trophy final 2017?

- A Vidarbha
- B Mumbai
- C Delhi
- D Punjab

**Answer: A**

### Question 46

Which of the following has a strong fruity fragrance?

- A Methanol
- B Ethyl acetate
- C Methyl chloride
- D Methanoic acid

**Answer: B**

### Question 47

The Special Olympics World Games 2019 was inaugurated at \_\_\_\_\_.

- A Sweden
- B Abu Dhabi
- C Austria
- D Germany

**Answer: B**

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 48

Name the state Chandragupta-I got in dowry from the Lichhavis.

- A Prayaga
- B Saketa
- C Pataliputra
- D Ujjain

Answer: C

**Question 49**

Name the gland that controls the functioning of other endocrine glands.

- A Pineal gland
- B Pancreas
- C Pituitary gland
- D Adrenal gland

Answer: C

**Question 50**

In March 2019, social media platforms and the Internet and Mobile Association of India (IAMAI) presented a \_\_\_\_\_ to the Election Commission of India.

- A Centre of Voting List
- B Detailed To Do List
- C Voluntary Code of Ethics
- D Precautionary Code

Answer: C

## SSC CGL Tier-2 Previous Papers PDF

### Quant

**Instructions**

For the following questions answer them individually

**Question 51**

If  $[8(x + y)^3 - 27(x - y)^3] \div (5y - x) = Ax^2 + Bxy + Cy^2$ , then the value of  $(A + B + C)$  is:

- A 26
- B 16
- C 13
- D 19

Answer: B

**Explanation:**

From the given question,

$$[8(x+y)^3 - 27(x-y)^3] \div (5y-x) = Ax^2 + Bxy + Cy^2$$

$$\Rightarrow [8(x+y)^3 - 27(x-y)^3] \div (5y-x)$$

$$\Rightarrow \frac{(2x+2y-3x+3y)(4(x+y)^2 + 9(x-y)^2 + 6(x-y)(x+y))}{5y-x}$$

$$\Rightarrow \frac{(5y-x)(4x^2 + 4y^2 + 8xy + 9x^2 + 9y^2 - 18xy + 6x^2 - 6y^2)}{5y-x}$$

$$\Rightarrow \frac{(5y-x)(19x^2 + 7y^2 - 10xy)}{(5y-x)}$$

$$\Rightarrow 19x^2 + 7y^2 - 10xy = Ax^2 + Bxy + Cy^2$$

Comparing both side with the respective terms,

$$\Rightarrow A = 19, B = -10, C = 7$$

$$\text{Hence, } A+B+C = 19 - 10 + 7 = 16$$

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#### Question 52

If the 8-digit number is 789x531y is divisible by 72, then the value of  $(5x - 3y)$  is:

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

**Answer: D**

#### Explanation:

As per the given question,

789x531y is divisible by 72

The given number will be divisible by 72, if it is individually divisible by 8 and 9.

Divisibility by 8-Any number is divisible by 8 if the last three digit of that number is divisible by 8.

last 3 digit is 31y, it will be divisible by 8 if  $y=2$

Divisibility by 9-Any number is always divisible by 9 if the sum of the digit of any number is evenly divisible by 9.

$$\text{Hence, the required number} = 7 + 8 + 9 + x + 5 + 3 + 1 + y = 33 + x + y$$

Now,  $y=2$

$$\text{the required number} = 33 + x + 2 = 35 + x$$

if  $x=1$ , then it will be divisible.

$$\text{Hence the value of } 5x - 3y = 5 \times 1 - 3 \times 2 = 5 - 6 = -1$$

#### Question 53

The income of Raju is 20% more than his expenditure. If his income increases by 60% and his expenditure increases by 70%, then by what percent does his savings increase/decrease?

- A It decreases by 2%

- B It increases by 2%
- C It decreases by 10%
- D It increases by 10%

**Answer: D**

**Explanation:**

Let the expenditure of Raju=100Rs.

So, income of Raju= 120Rs.

Hence, the saving amount=20Rs.

When the income was increased by 60%, then the new income amount =  $\frac{120 \times 160}{100} = 192$ Rs.

The increased expenditure =  $\frac{170 \times 100}{100} = 170$ Rs.

Hence, the new saving amount =  $192 - 170 = 22$ Rs

Hence, the required percentage =  $\frac{(22 - 20) \times 100}{20} = \frac{2 \times 100}{20} = 10\%$

**Question 54**

If  $\cos \theta = \frac{2p}{1+p^2}$ , then  $\tan \theta$  is equal to:

- A  $\frac{1-p^2}{2p}$
- B  $\frac{p^2}{1+p^2}$
- C  $\frac{1-p^2}{1+p^2}$
- D  $\frac{2p}{1-p^2}$

**Answer: A**

**Explanation:**

Given that,

$$\cos \theta = \frac{2p}{1+p^2}$$

$$\sin \theta = \sqrt{1 - \cos^2 \theta} = \sqrt{1 - \left(\frac{2p}{1+p^2}\right)^2} = \sqrt{\frac{(1+p^2)^2 - 4p^2}{(1+p^2)^2}}$$

$$\sin \theta = \sqrt{\frac{1 + p^4 + 2p^2 - 4p^2}{(1+p^2)^2}} = \sqrt{\frac{1 + p^4 - 2p^2}{(1+p^2)^2}} = \sqrt{\frac{(1-p^2)^2}{(1+p^2)^2}} = \frac{1-p^2}{1+p^2}$$

$$\text{So, } \tan \theta = \frac{\sin \theta}{\cos \theta} = \frac{\frac{1-p^2}{1+p^2}}{\frac{2p}{1+p^2}} = \frac{1-p^2}{2p}$$



Question 55

The average weight of a certain number of students in a class is 68.5 kg. If 4 new students having weights 72.2 kg, 70.8 kg, 70.3 kg and 66.7 kg join the class, then the average weight of all the students increases by 300 g. The number of students in the class, initially, is:

- A 16
- B 21
- C 11
- D 26

Answer: A

Explanation:

As per the question,

The average weight of the students = 68.5 Kg

Let total number of students in the class =  $n$  and weight of the students =  $w_n$

$$w_n$$

So, average weight of  $n$  students  $n = 68.5$

$$\frac{w_n + 72.2 + 70.8 + 70.3 + 66.7}{n + 4} = 68.5 + 0.3$$

As per the condition given in the question,

$$\Rightarrow 68.5n + 72.2 + 70.8 + 70.3 + 66.7 = 68.8 \times (n + 4)$$

$$\Rightarrow 68.5n + 280 = 68.8n + 275.2$$

$$\Rightarrow 68.8n - 68.5n = 280 - 275.2$$

$$\Rightarrow 0.3n = 4.8$$

Hence the required number of students  $n = 16$

Question 56

If  $x$  is subtracted from each of 23, 39, 32 and 56, the numbers so obtained, in this order, are in proportion. What is the mean proportional between  $(x + 4)$  and  $(3x + 1)$  ?

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

Answer: C

Explanation:

As per the question,

$$\frac{23 - x}{39 - x} = \frac{32 - x}{56 - x}$$

$$\Rightarrow (23 - x)(56 - x) = (32 - x)(39 - x)$$

$$\Rightarrow 23 \times 56 - 23x - 56x + x^2 = 32 \times 39 - 32x - 39x + x^2$$

$$\Rightarrow 1288 - 79x + x^2 = 1248 - 71x + x^2$$

$$\Rightarrow 79x - 71x = 1288 - 1248$$

$$\Rightarrow 8x = 40$$

$$\Rightarrow x = 5$$

Now, substituting the values in  $= \sqrt{(x+4)(3x+1)} = \sqrt{(5+4)(3 \times 5+1)} = \sqrt{9 \times 16} = 3 \times 4 = 12$

Hence, the required value = 12

#### Question 57

Renu bought an article for ₹1,240 and sold it at a loss of 25%. With this amount, she bought another article and sold it at a gain of 40%. Her overall percentage profit is:

A 12

B  $6\frac{2}{3}$

C 5

D 15

**Answer: C**

#### Explanation:

As per the given question,

Price of the article = 1240 Rs.

Loss percentage = 25%

So, the selling price of the article =  $\frac{1240 \times 75}{100} = 310 \times 3 = 930 \text{Rs.}$

As per the question, she bought another article from this amount, and the gain percentage = 40%

Hence, the selling price of the article =  $\frac{930 \times 140}{100} = 93 \times 14 = 1302 \text{Rs.}$

Hence, overall percentage profit =  $\frac{(1302 - 1240) \times 100}{1240} = \frac{62 \times 100}{1240} = 5\%$

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

#### Question 58

$\triangle ABC$  is similar to  $\triangle DEF$ . The area of  $\triangle ABC$  is  $100 \text{ cm}^2$  and the area of  $\triangle DEF$  is  $49 \text{ cm}^2$ . If the altitude of  $\triangle ABC = 5 \text{ cm}$ , then the corresponding altitude of  $\triangle DEF$  is:

A 4.5 cm

B 6 cm

C 3.5 cm

D 7 cm

**Answer: C**

#### Explanation:

Given that,

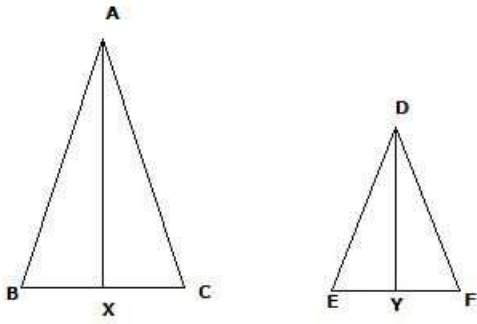
$\triangle ABC$  is similar to  $\triangle DEF$

The area of  $\triangle ABC$  is  $100 \text{ cm}^2$

the area of  $\triangle DEF$  is  $49 \text{ cm}^2$

$\triangle ABC = 5 \text{ cm}$

We know that from the property of the similar triangle,



$$\Rightarrow \frac{\text{ar}(\triangle ABC)}{\text{ar}(\triangle DEF)} = \left(\frac{AB}{DE}\right)^2 = \left(\frac{BC}{EF}\right)^2 = \left(\frac{AC}{DF}\right)^2 = \left(\frac{AX}{DY}\right)^2$$

Now substituting the values in the above,

$$\Rightarrow \frac{\text{ar}(\triangle ABC)}{\text{ar}(\triangle DEF)} = \left(\frac{AX}{DY}\right)^2$$

$$\Rightarrow \frac{100}{49} = \left(\frac{5}{DY}\right)^2$$

Now, taking the square root of both side,

$$\Rightarrow \frac{10}{7} = \frac{5}{DY}$$

$$\Rightarrow DY = \frac{5 \times 7}{10} = 2 = 3.5 \text{ cm}$$

#### Question 59

A takes 30 minutes more than B to cover a distance of 15 km at a certain speed. But if A doubles his speed, he takes one hour less than B to cover the same distance. What is the speed (in km/h) of B?

A 5

B 6

C  $6\frac{1}{2}$

D  $5\frac{1}{2}$

Answer: B

#### Explanation:

Let the speed of A is  $V_1$  and speed of B is  $V_2$ .

Let B takes  $t$  hour to cover 15Km distance.

$$\text{So, time taken by B to cover 15Km, } t = \frac{15}{V_2}$$

$$\text{time taken by A to cover 15Km } t + 0.5 = \frac{15}{V_1} \text{ -----(i)}$$

As per the question, when  $V_1 = 2 \times$  the initial velocity

$$\text{Then time taken by A to cover 15Km, } t - 1 = \frac{15}{2V_1} \text{ -----(ii)}$$

From equation (i) and (ii),

$$15$$

$$\Rightarrow t + 0.5 = 2t - 2$$

$$\Rightarrow 2t - t = 2 + 0.5 \text{ hour}$$

$$\Rightarrow t = 2.5 = 2 \frac{1}{2} \text{ hour}$$

$$\Rightarrow t = 2.5 = 2 \frac{1}{2} \text{ hour}$$

Hence the speed of the car  $B = \frac{15}{2.5} = 6 \text{ km/h}$

**Question 60**

How much iron sheet (in  $\text{m}^2$ ) will be needed to construct a rectangular tank measuring  $10 \text{ m} \times 8 \text{ m} \times 6 \text{ m}$ , if a circular opening of radius one meter is to be left at the top of the tank? (correct to one decimal place)

- A 370.4
- B 370.8
- C 372.9
- D 371.6

Answer: C

**Explanation:**

As per the given question,

The dimension of the tank =  $10 \text{ m} \times 8 \text{ m} \times 6 \text{ m}$

Hence, total surface area of the tank will be =  $2(l \times b + b \times h + h \times l)$

$$\Rightarrow 2(10 \times 8 + 8 \times 6 + 6 \times 10) = 2(80 + 48 + 60) = 376$$

The area of the circular part =  $\pi r^2 = \pi \times 1^2 = \pi$

Hence the required area =  $376 - \pi = 372.86 \cong 372.9 \text{ m}^2$

## General Science Notes for SSC CGL

**Question 61**

The table shows the production of different types of cars (in thousands).

Years →	2013	2014	2015	2016	2017
Cars ↓					
A	35	40	48	50	36
B	39	45	54	60	72
C	52	25	32	54	45
D	50	42	45	46	47
E	36	46	42	48	55

If the data regarding the production of cars of type B is represented by a pie-chart. then the angle of the sector representing the production of cars in 2016 will be:

- A  $80^\circ$
- B  $72^\circ$

C  $96^\circ$

D  $60^\circ$

Answer: A

**Explanation:**

As per the given data in the question,

The total production of car of type B =  $39 + 45 + 54 + 60 + 72 = 270$

The production of the car of type B in 2016 = 60

Hence, the required angle =  $\frac{360 \times 60}{270} = \frac{4 \times 60}{3} = 80^\circ$

**Question 62**

The compound interest on a certain sum in  $2\frac{1}{2}$  years at 10% p.a., interest compounded yearly, is ₹1,623 The sum is:

A ₹5,000

B ₹6,000

C ₹7,200

D ₹6,500

Answer: B

**Explanation:**

As per the given question,

Let the sum amount is =P

time (t)= $2\frac{1}{2}$

Rate of interest (R)= 10% p.a.

Compound interest =1,623 Rs.

Now, we know that  $A = P \left(1 + \frac{R}{100}\right)^t$

So,  $A = P \left(1 + \frac{10}{100}\right)^2$

$\Rightarrow A = P \left(\frac{11}{10}\right)^2$

Compound interest in 2 years =  $P \left(\frac{11}{10}\right)^2 - P$

Interest in  $\frac{1}{2}$  years =  $\frac{121P \times R \times t}{100 \times 100} = \frac{121P \times 10 \times 1}{100 \times 2 \times 100} = \frac{121P}{2000}$

Hence, net interest, 1623 =  $\frac{121P}{2000} + P \left(\frac{11}{10}\right)^2 - P$

$\Rightarrow 1623 = \frac{121P}{2000} + \frac{21P}{100}$

$\Rightarrow 541P = 1623 \times 2000$

$\Rightarrow P = 6000\text{Rs.}$

**Question 63**

$\left(\frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta}\right)^2 + 1, \theta \neq 45^\circ$  is equal to:

- A  $2 \tan^2 \theta$
- B  $\cot^2 \theta$
- C  $\operatorname{cosec}^2 \theta$
- D  $\sec^2 \theta$

**Answer:** D

**Explanation:**

As per the given question,

$$\Rightarrow \left(\frac{\sin\theta - 2\sin^3\theta}{2\cos^3\theta - \cos\theta}\right)^2 + 1$$

$$\text{Now, } \Rightarrow \frac{\sin^2\theta}{\cos^2\theta} \left(\frac{1 - 2\sin^2\theta}{2\cos^2\theta - 1}\right)^2 + 1$$

We know that  $\Rightarrow \cos 2\theta = 2\cos^2\theta - 1 = 1 - 2\sin^2\theta = \cos^2\theta - \sin^2\theta$

$$\text{Now, } \Rightarrow \frac{\sin^2\theta}{\cos^2\theta} \left(\frac{\cos 2\theta}{\cos 2\theta}\right)^2 + 1$$

$$\Rightarrow \frac{\sin^2\theta}{\cos^2\theta} + 1$$

Now taking LCM,

$$\Rightarrow \frac{\sin^2\theta + \cos^2\theta}{\cos^2\theta} = \frac{1}{\cos^2\theta} = \sec^2\theta$$

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

**Instructions**

The table shows the production of different types of cars (in thousands).

Years →	2013	2014	2015	2016	2017
Cars ↓					
A	35	40	48	50	36
B	39	45	54	60	72
C	52	25	32	54	45
D	50	42	45	46	47
E	36	46	42	48	55

**Question 64**

The total production of cars of type B in 2013, 2014, 2015 and 2017 taken together is what percent less than the total production of all types of cars in 2017? (Correct to one decimal place)?

- A 15.8
- B 18.2
- C 18.4
- D 17.6

**Answer:** D

**Explanation:**

As per the given data in the question,

Total production of cars of type B in 2013, 2014, 2015 and 2017 taken together =  $39 + 45 + 54 + 72 = 210$

Total production of all types of cars in 2017 = 255

$$\text{Hence, the required percentage} = \frac{(255 - 210) \times 100}{255} = \frac{4500}{255} = 17.64\%$$

Hence the required percentage = 17.64%

**Question 65**

The production of cars of type A in 2015 and of type C in 2013 taken together is approximately what percent of the total production of cars of type D in five years ?

- A 40.2
- B 42.4
- C 43.5
- D 42.8

**Answer: C**

**Explanation:**

As per the given question,

The production of car of type A in 2015 and type C in 2013 taken together =  $48 + 52 = 100$

Total production of car of type D in all five years =  $50 + 42 + 45 + 46 + 47 = 230$

$$\text{Hence, the required percentage} = \frac{(100) \times 100}{230} \cong 43.5$$

**Instructions**

For the following questions answer them individually

**Question 66**

Two circles of radii 10 cm and 8 cm intersect at the points P and Q. If PQ = 12 cm, and the distance between the centers of the circles is x cm. The value of x (correct to one decimal place) is:

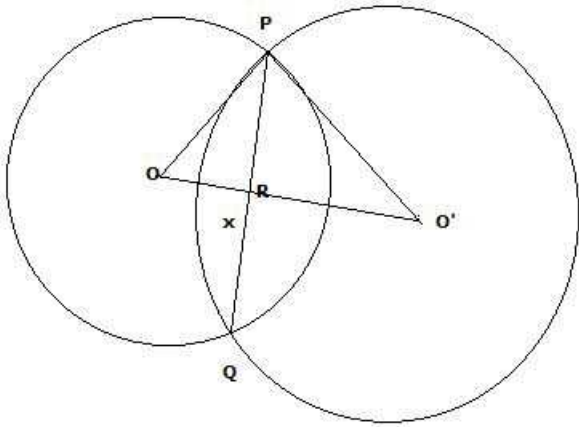
- A 12.8
- B 13.3
- C 13.9
- D 14.8

**Answer: B**

**Explanation:**

As per the given question,

Two circles are getting intersect at the point P and Q, as per the given below,



$$r_1 = 10\text{cm}$$

$$\text{and } r_2 = 8\text{cm}$$

$$\Rightarrow PR = RQ = \frac{PQ}{2} = 6\text{cm}$$

We know that  $O'R$  and  $OR$  will be the perpendicular to the chord  $PQ$  and  $OO'$  have the length  $x$ .

Now, In  $\triangle RO'P$  and  $\triangle PRO$

$$\Rightarrow OO'^2 = PR^2 + RO'^2 \text{ and } PO^2 = PR^2 + RO^2$$

Now substituting the values in the above,

$$\Rightarrow 10^2 = 6^2 + RO'^2 \text{ and } 8^2 = 6^2 + RO^2$$

$$\Rightarrow RO'^2 = 100 - 36 \text{ and } RO^2 = 64 - 36$$

$$\Rightarrow RO'^2 = 64 \text{ and } RO^2 = 28$$

$$\Rightarrow RO' = 8 \text{ and } RO = 2\sqrt{7}$$

$$\text{Hence } x = RO' + RO = 8 + 2\sqrt{7} = 13.3\text{cm}$$

## SSC Exam Free Videos (Youtube)

### Question 67

The ratio of the efficiencies of A, B and C is 4 : 5 : 3 Working together, they can complete that work in 25 days. A and C together will complete 35% of that work in:

- A 10 days
- B 12 days
- C 18 days
- D 15 days

**Answer:** D

### Explanation:

As per the given question,

The ratio in the efficiencies of A, B and C = 4:5:3

Hence, A can complete the work in  $x/4$  days

B can complete the work in  $x/5$  days

C can finish the work in  $x/3$  days



$$4 \quad 5 \quad 3 \quad 1$$

So, the work will be finish in one day, if they are working together  $x + x + x = 25$

$$\Rightarrow \frac{4 + 5 + 3}{x} = 25$$

$$\Rightarrow x = \frac{12}{25}$$

$$\Rightarrow x = 300$$

Hence, A alone can finish the work =  $\frac{300}{4} = 75$  days

C alone can finish the wok =  $\frac{300}{3} = 100$  days

A and C can finish the work together in one day =  $\frac{1}{75} + \frac{1}{100} = \frac{4 + 3}{300} = \frac{7}{300}$

Hence, A and C can finish the work in =  $\frac{300}{7}$  days

Hence, A and C can finish 35% work =  $\frac{300 \times 35}{7 \times 100} = 15$  days

**Question 68**

The marked price of an article is ₹315 It is sold for ₹288. If there is a loss of 4%, then by what percent above the cost is the article marked?

A 8

B  $6\frac{1}{2}$

C  $5\frac{1}{2}$

D 5

**Answer: D**

**Explanation:**

Let the cost price of the article = x Rs.

given that loss percentage =4%

Hence

$$\Rightarrow 4 = \frac{(CP - SP) \times 100}{CP}$$

$$\Rightarrow 4 = \frac{(x - 288) \times 100}{x}$$

$$\Rightarrow 4x = 100x - 28800$$

$$\Rightarrow 96x = 28800$$

$$\Rightarrow x = \frac{28800}{96} = 300$$

Hence the required percentage =  $\frac{(315 - 300) \times 100}{300} = \frac{15 \times 100}{300} = 5$

**Question 69**

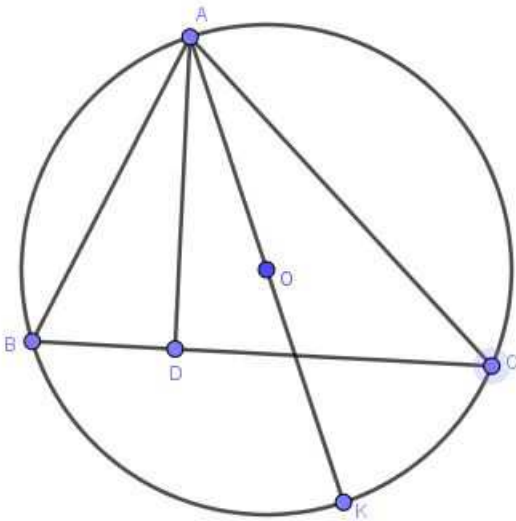
A triangle ABC is inscribed in a circle with centre O. AO is produced to meet the circle at K and AD  $\perp$  BC. If  $\angle B = 80^\circ$  and  $\angle C = 64^\circ$ , then the measure of  $\angle DAK$  is:

- A  $10^\circ$
- B  $16^\circ$
- C  $12^\circ$
- D  $20^\circ$

Answer: B

**Explanation:**

As per the given question,



Given that,  $AD \perp BC$ ,  $\angle B = 80^\circ$  and  $\angle C = 64^\circ$

Now,  $\triangle ADB$

$$\angle ABD = 80$$

$$\angle BAD = 90 - 80 = 10^\circ$$

$$\text{In } \triangle ABC \angle BAC = 180 - 80 - 64 = 36^\circ$$

Now, In  $\triangle ACK$  and  $\triangle ACB$

$\angle B = \angle K$  base is same for both triangle in a circle.

Now, in the  $\triangle ACK$

$$\angle C = 90^\circ$$

$$\text{Hence } \angle CAK = 90 - 80 = 10^\circ$$

$$\text{Now, } \angle DAK = \angle BAC - \angle BAD - \angle CAK$$

$$\angle DAK = 36 - 10 - 10 = 16^\circ$$

## SSC Free Preparation App

### Question 70

In  $\triangle ABC$ ,  $AD \perp BC$  and  $BE \perp AC$ .  $AD$  and  $BE$  intersect each other at  $F$ . If  $BF = AC$ , then the measure of  $\angle ABC$  is:

- A  $70^\circ$
- B  $60^\circ$

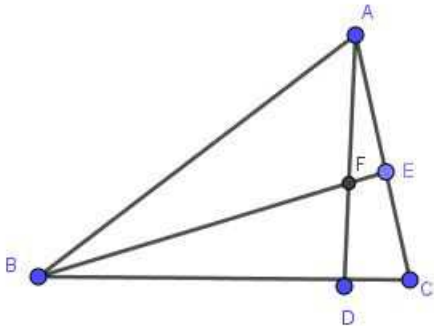
C  $50^\circ$

D  $45^\circ$

Answer: D

Explanation:

From the given question,



In  $\triangle BDF$  and  $\triangle AEF$

$$\angle BDF = \angle AEF = 90^\circ$$

$$\angle BFD = \angle AFE \text{ (opposite angle)}$$

$$\text{So, } \angle DBF = \angle FAD$$

Hence  $\triangle BDF$  and  $\triangle AEF$  are similar triangle.

So,  $\triangle BDF$  and  $\triangle ADC$  are similar triangle

$$\text{Hence, } \frac{BF}{AC} = \frac{BD}{AD}$$

Hence,  $BD=AD$

$$\tan \angle B = \frac{AD}{BD} = \tan 45^\circ$$

$$\angle ABX = 45^\circ$$

Question 71

If  $16x^2 + 9y^2 + 4z^2 = 24(x - y + z) - 61$ , then the value of  $(xy + 2z)$  is:

A 1

B 2

C 5

D 3

Answer: C

Explanation:

As per the given question,

$$16x^2 + 9y^2 + 4z^2 = 24(x - y + z) - 61$$

$$16x^2 + 9y^2 + 4z^2 - 24x + 24y - 24z + 61 = 0$$

$$16x^2 - 24x + 9 + 9y^2 + 24y + 16 + 4z^2 - 24z + 36 = 0$$

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

$$4x - 3 = 0 \Rightarrow x = \frac{3}{4}$$

$$3y + 4 = 0 \Rightarrow y = \frac{-4}{3}$$

$$2z - 6 = 0 \Rightarrow z = 3$$

$$\text{Hence, } xy + 2z = 4 \times \frac{-4}{3} + 2 \times 3 = -\frac{16}{3} + 6 = \frac{-16 + 18}{3} = \frac{2}{3}$$

### Question 72

The value of  $5 \div 5$  of  $5 \times 2 + 2 \div 2$  of  $2 \times 5 - (5 - 2) \div 6 \times 2$  is:

A  $\frac{9}{5}$

B  $\frac{23}{2}$

C 19

D  $\frac{19}{10}$

Answer: D

### Explanation:

$$5 \div 5 \text{ of } 5 \times 2 + 2 \div 2 \text{ of } 2 \times 5 - (5 - 2) \div 6 \times 2$$

$$\Rightarrow 5 \div 25 \times 2 + 2 \div 4 \times 5 - (5 - 2) \div 6 \times 2$$

$$\Rightarrow 5 \div 25 \times 2 + 2 \div 4 \times 5 - (3) \div 6 \times 2$$

$$\Rightarrow 5 \div 25 \times 2 + 4 \times 5 - (3) \div 6 \times 2$$

$$\Rightarrow 25 \times 2 + 4 \times 5 - 6 \times 2$$

$$\Rightarrow 5 \times 2 + 2 \times 5 - 2 \times 2$$

$$\Rightarrow 5 \times 2 + 2 \times 5 - 2 \times 2$$

$$\Rightarrow 5 + 2 - 2$$

$$\Rightarrow 19$$

## Daily Free SSC Practice Set

### Question 73

The table shows the production of different types of cars (in thousands).

Years →	2013	2014	2015	2016	2017
Cars ↓					
A	35	40	48	50	36
B	39	45	54	60	72
C	52	25	32	54	45
D	50	42	45	46	47
E	36	46	42	48	55

The ratio of the total production of cars of type C and E taken together in 2013 to the total production of cars of type D in 2014 and 2016 and type E in 2017 taken together is:

A 13:32

B 5:8

C 8:13

D 8:11

**Answer: C**

**Explanation:**

As per the given data in the question,

Total production of the car of type C and E in the 2013 =  $52 + 36 = 88$

Total production of the car of type D in 2014 and 2016 and type E in 2017 =  $42 + 46 + 55 = 143$

Hence, the required ratio =  $\frac{88}{143} = \frac{8}{13}$

**Question 74**

If  $x + y + z = 19$ ,  $xy + yz + zx = 114$ , then the value of  $\sqrt{x^3 + y^3 + z^3 - 3xyz}$  is:

A 13

B 19

C 17

D 21

**Answer: B**

**Explanation:**

Given that,

$x + y + z = 19$ ,  $xy + yz + zx = 114$

We know that  $(x + y + z)^2 = x^2 + y^2 + z^2 + 2(xy + yz + zx)$

Hence,  $(x + y + z)^2 - 2(xy + yz + zx) = x^2 + y^2 + z^2$

Now, substituting the values,  $(19)^2 - 2(114) = x^2 + y^2 + z^2$

$\Rightarrow 361 - 228 = x^2 + y^2 + z^2$

$\Rightarrow x^2 + y^2 + z^2 = 133$

Now,  $\Rightarrow \sqrt{x^3 + y^3 + z^3 - 3xyz} = \sqrt{(x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx)}$

Now, substituting the values in the equation,

$\Rightarrow \sqrt{x^3 + y^3 + z^3 - 3xyz} = \sqrt{(19)(133 - 114)} = \sqrt{19 \times 14} = 19$

**Question 75**

If  $0^\circ < \theta < 90^\circ$  and  $\cos^2 \theta = 3(\cot^2 \theta - \cos^2 \theta)$  then the value of  $(\frac{1}{2} \sec \theta + \sin \theta)^{-1}$  is:

A  $2(\sqrt{3} - 1)$

B  $\sqrt{3} + 1$

C  $\sqrt{3} + 2$

D  $2(2 - \sqrt{3})$

Answer: D

**Explanation:**

From the given question,

$$\cos^2 \theta = 3(\cot^2 \theta - \cos^2 \theta)$$

$$\Rightarrow \cos^2 \theta = 3 \left( \frac{\cos^2 \theta}{\sin^2 \theta} - \cos^2 \theta \right)$$

$$\Rightarrow \cos^2 \theta = 3 \left( \frac{\cos^2 \theta - \cos^2 \theta \sin^2 \theta}{\sin^2 \theta} \right)$$

$$\Rightarrow \cos^2 \theta = 3 \cos^2 \theta \left( \frac{1 - \sin^2 \theta}{\sin^2 \theta} \right)$$

$$\Rightarrow \cos^2 \theta = 3 \cos^2 \theta \left( \frac{\cos^2 \theta}{\sin^2 \theta} \right)$$

$$\Rightarrow \cos^2 \theta \sin^2 \theta = 3 \cos^2 \theta (\cos^2 \theta)$$

$$\Rightarrow \cos^2 \theta \sin^2 \theta = 3 \cos^4 \theta$$

$$\Rightarrow 3 \cos^4 \theta - \cos^2 \theta \sin^2 \theta = 0$$

$$\Rightarrow 3 \cos^4 \theta - \cos^2 \theta (1 - \cos^2 \theta) = 0$$

$$\Rightarrow 3 \cos^4 \theta - \cos^2 \theta + \cos^4 \theta = 0$$

$$\Rightarrow 4 \cos^4 \theta - \cos^2 \theta = 0$$

$$\Rightarrow \cos^2 (4 \cos^2 \theta - 1) = 0$$

$$\Rightarrow 4 \cos^2 \theta - 1 = 0 \text{ and } \cos^2 \theta = 0$$

$$\Rightarrow 4 \cos^2 \theta = 1 \text{ and } \cos^2 \theta = 0$$

$$\Rightarrow \cos^2 \theta = \frac{1}{4} \text{ and } \cos \theta = \cos\left(\frac{\pi}{2}\right) = 0$$

$$\Rightarrow \cos \theta = \frac{1}{2} = \cos\left(\frac{\pi}{3}\right) \text{ and } \cos \theta = \cos\left(\frac{\pi}{2}\right) = 0$$

$$\text{Hence, } \theta = \frac{\pi}{3} \text{ And } \theta = \frac{\pi}{2}$$

As per the question it is given that  $0 < \theta < \frac{\pi}{2}$

Now, substituting the values of  $\theta = \frac{\pi}{3}$

$$\Rightarrow \left( \frac{1}{2} \sec\left(\frac{\pi}{3}\right) + \sin\left(\frac{\pi}{3}\right) \right)^{-1}$$

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

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

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

$$\Rightarrow \left( \frac{2}{2 + \sqrt{3}} \right)$$

Now, taking the conjugate of the denominator,

$$\Rightarrow \left( \frac{2(2 - \sqrt{3})}{(2 + \sqrt{3})(2 - \sqrt{3})} \right) = \frac{2(2 - \sqrt{3})}{(4 - 3)} = 2(2 - \sqrt{3})$$

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### English

#### Instructions

For the following questions answer them individually

#### Question 76

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select **No improvement**.

If you join this job now, it proves to be good in the long run.

- A it proves good
- B it will prove to be good
- C No improvement
- D it has proved to be good

Answer: B

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#### Question 77

Select the antonym of the given word.

TENDER

- A gentle
- B warm
- C soft
- D rough

Answer: D

#### Question 78

In the sentence identify the segment which contains the grammatical error.  
She got two quick promotions in order that she has good communication skills.

- A two quick promotions
- B She got
- C in order that
- D she has good communication skills

Answer: C

Question 79

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. That sort of pollution, which is also widespread in other south east Asian nations, regularly kills wildlife like whales and turtles that ingest the waste.
- B. Environmental groups have tagged the Philippines as one of the world's biggest ocean polluters due to its reliance on single-use plastic.
- C. In Thailand also, a whale died last year after swallowing more than 80 plastic bags.
- D. In the latest case, a whale with d: kilos of plastic trash in its stomach died on Saturday in southern Philippines where it was stranded a day earlier.

A BCAD

B DABC

C BADC

D ABCD

Answer: C

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Question 80

Select the most appropriate meaning of the given idiom.  
get out of hand

A get out of control

B give up something

C get upset

D to complete a task

Answer: A

Question 81

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

I look for a better job for the last two months, but nothing is in sight.

A looked for a better job

B have been looking for a better job

C No improvement

D have looked for a better job

Answer: B

Question 82

Select the correct active form of the given sentence.

The main gate of the building was being guarded by gun-totting guards.

A Gun-totting guards guarded the main gate of the building.



- B The main gate of the building were guarding gun-totting guards.
- C Gun-totting guards were guarding the main gate of the building.
- D Gun-totting guards have been guarding the main gate of the building.

Answer: C

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Question 83

Select the antonym of the given word.

ESCALATE

- A reduce
- B enlarge
- C heighten
- D raise

Answer: A

Question 84

Select the most appropriate meaning of the given idiom.  
costs an arm and a leg

- A easy to obtain
- B very expensive
- C rarely available
- D nothing to lose

Answer: B

Question 85

Select the wrongly spelt word.

- A exempt
- B exhale
- C exemplify
- D example

Answer: C

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Question 86

Select the correct passive form of the given sentence.  
Do not park your car in front of my house.

- A Your car could not be parked in front of my house.
- B My house should not be parked in front of your car.
- C Your car need not be parked in front of my house.
- D Your car should not be parked in front of my house.

**Answer: D**

**Question 87**

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. The elephant tusks were tracked from the Democratic Republic of Congo for two months.
- B. Customs officials in Thailand say it's the biggest seizure in the country's history.
- C. Four tonnes of ivory, with a market value of \$6 million - it was an impressive haul.
- D. Officials say they were being transported to Laos, from where they believed the ivory would be sold to customers across Asia.

- A ABCD
- B ACDB
- C CBAD
- D CABD

**Answer: C**

**Question 88**

Select the word which means the same as the group of words given.

**A person, animal or plant belonging originally to a place**

- A occupant
- B resident
- C alien
- D native

**Answer: D**

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**Question 89**

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

**Due to the Cyclone Idai vast areas of land have been flooded, roads destroyed and communications disrupting in Zimbabwe and Mosambique.**

- A vast areas of land have been flooded
- B Due to the Cyclone Idai
- C roads destroyed
- D and communications disrupting

**Answer: D**

**Question 90**

Select the wrongly spelt word.

- A communication
- B comparable
- C compitition
- D comparison

**Answer: C**

**Question 91**

Select the synonym of the given word.

**TILT**

- A straighten
- B slant
- C cross
- D support

**Answer: B**

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**Question 92**

Select the most appropriate word to fill in the blank.

Scientists at Cambridge University are \_\_\_\_\_ how plants can give us sustainable energy.

- A scrutinizing
- B inspecting
- C looking
- D investigating

**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:**

An Italian mayor has been cleaning the streets along with his councilors after their town (1)\_\_\_\_\_ with no manual workers, it's reported. In fact, (2)\_\_\_\_\_ was sweeping the piazza in front of the (3)\_\_\_\_\_ church in preparation for market day, (4)\_\_\_\_\_ the deputy mayor's father and a town councilor armed with a high-pressure hose. The town Zerfaliu's last (5)\_\_\_\_\_ retired six months ago and nobody has been hired since then. "We can't do anything - we are blocked by bureaucracy," the mayor says.

**Question 93**

Select the most appropriate option for blank No.1

- A leaves

- B has left
- C was leaving
- D was left

Answer: D

**Question 94**

Select the most appropriate option for blank No.2

- A he
- B they
- C it
- D she

Answer: A

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**Question 95**

Select the most appropriate option for blank No.3

- A local
- B next
- C near
- D neighbour

Answer: A

**Question 96**

Select the most appropriate option for blank No.4

- A as well
- B alongside
- C along
- D also

Answer: B

**Question 97**

Select the most appropriate option for blank No.5

- A councillor
- B mayor
- C member

D worker

Answer: D

## SSC CGL Important Questions PDF

### Instructions

For the following questions answer them individually

### Question 98

Select the most appropriate word to fill in the blank.

The State Government argued that it could not \_\_\_\_\_ the increase in the teachers' salaries as awarded by the court.

A get

B afford

C spare

D stand

Answer: B

### Question 99

Select the word which means same as the group of words given.

A person without a settled home or regular work who wanders from place to place and lives by begging.

A migrant

B truant

C itinerant

D vagrant

Answer: D

### Question 100

Select the synonym of the given word.

GARRULOUS

A concise

B throaty

C guttral

D talkative

Answer: D

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