



## SSC CGL 2014 Tier 1 26 Oct shift 4

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# Reasoning

## Instructions

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

### Question 1

BFJN : KOSW :: DHLP : ?

- A CGKO
- B FJNR
- C MQUY
- D NRVZ

Answer: C

### Explanation:

Expression = BFJN : KOSW

The pattern followed is :

B	F	J	N
(+9)	(+9)	(+9)	(+9)
K	O	S	W

Similarly, for DHLP :

D	H	L	P
(+9)	(+9)	(+9)	(+9)
M	Q	U	Y

=> Ans - (C)

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### Question 2

BPTF: ESWI :: ? : GDRY

- A DVAO
- B DAOV
- C VAOD
- D ADVO

Answer: B

### Explanation:

Expression = BPTF: ESWI

The pattern followed is :

B	P	T	F
(+3)	(+3)	(+3)	(+3)
E	S	W	I

Similarly, for GDRY :

D	A	O	V
(+3)	(+3)	(+3)	(+3)
G	D	R	Y

=> Ans - (B)

**Question 3**

60 : 24 :: 480 : ?

A 192

B 72

C 152

D 180

Answer: A

**Explanation:**

Expression = 60 : 24 :: 480 : ?

$$\Rightarrow \frac{60}{24} = \frac{480}{x}$$

$$\Rightarrow x = 480 \times \frac{24}{60}$$

$$\Rightarrow x = 8 \times 24 = 192$$

=> Ans - (A)

**Question 4**

125 : 216 :: 1331 : ?

A 7128

B 1225

C 1728

D 169

Answer: C

**Explanation:**

Expression = 125 : 216 :: 1331 : ?

The pattern followed is =  $n^3 : (n + 1)^3$

$$\text{Eg} = 5^3 : (5 + 1)^3 = 125 : 216$$

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

$$\Rightarrow (11 + 1)^3 = (12)^3 = 1728$$

=> Ans - (C)

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**Question 5**

Marathon : Race :: Hibernation : ?

A Sleep

B Winter

- C Bear
- D Dream

Answer: A

**Explanation:**

A marathon is a long distance running race, similarly hibernation is an extended period of sleep.

=> Ans - (A)

**Question 6**

**Elated : Despondent :: Enlightened :**

- A Miserable
- B Aware
- C Tolerant
- D Ignorant

Answer: D

**Explanation:**

Elated (making happy) and Despondent (hopeless) are antonyms, similarly opposite of enlightened is ignorant.

=> Ans - (D)

**Instructions**

In each of the following questions, select the one which is different from other three alternatives.

**Question 7**

- A 729 - 27
- B 361 - 19
- C 476 - 32
- D 676 - 26

Answer: C

**Explanation:**

(A) :  $729 = 27^2$

(B) :  $361 = 19^2$

(C) :  $476 \neq 32^2$

(D) :  $676 = 26^2$

=> Ans - (C)

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**Question 8**

- A BDEG
- B ACEH
- C MOQT

D SUWZ

**Answer: A**

**Explanation:**

(A) : B (+2 letters) = D (+1 letter) = E (+2 letters) = G

(B) : A (+2 letters) = C (+2 letters) = E (+3 letters) = H

(C) : M (+2 letters) = O (+2 letters) = Q (+3 letters) = T

(D) : S (+2 letters) = U (+2 letters) = W (+3 letters) = Z

=> Ans - (A)

**Question 9**

A Earthquake

B Cyclone

C Famine

D Flood

**Answer: C**

**Explanation:**

Earthquake, cyclone and flood are natural disasters, hence famine is the odd one out.

=> Ans - (C)

**Question 10**

A Revoke

B Nullify

C Expunge

D Enforce

**Answer: D**

**Explanation:**

Revoke, nullify and expunge are synonyms which means to remove completely, hence enforce is the odd one.

=> Ans - (D)

## 25 SSC CHSL Mocks for just Rs. 149

**Question 11**

A 343

B 2401

C 149

D 49

**Answer: C**

**Explanation:**

Apart from 149, all the numbers are multiples of 7, hence it is the odd one out.

=> Ans - (C)

**Instructions**

For the following questions answer them individually

**Question 12**

Arrange the following words as per order in the English dictionary :

1. rationalism
2. rationale
3. rationalization
4. rationalize
5. rationality

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

**Answer:** A

**Explanation:**

As per order in the English dictionary :

= rationale -> rationalism -> rationality -> rationalization -> rationalize

≡ 2,1,5,3,4

=> Ans - (A)

**Question 13**

Find the missing term

3, 5, 9, 17, ?

- A 32  
B 33  
C 34  
D 35

**Answer:** B

**Explanation:**

here the given pattern is 3, 5, 9, 17, ?

let the missing term be y

we can see that

$$5 - 3 = 2^1$$

$$9 - 5 = 4 = 2^2$$

$$17 - 9 = 8 = 2^3$$

as we can see that every time the difference between consecutive terms is getting increased by power of 2

and hence ,  $y - 17 = 2^4 = 16$

$$y = 33$$

**Question 14**

In the following series, how many FNU occur in such a way that 'N' is in the middle and 'F' and 'U' are adjacent to it on both sides ?  
UHFNUFUFNUNII FFNUIJKINIFNUT

- A 6
- B 2
- C 3
- D 4

Answer: D

**Explanation:**

We need to find FNU

=> UH **FNU** FU **FNU** NIIF **FNU** IJKINI **FNU** T

Thus, there are 4 such combinations.

=> Ans - (D)

**Question 15**

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

1. Large intestine
2. Rectum
3. Small intestine
4. Mouth
5. Stomach
6. Oesophagus

- A 5,4,2,3,6,1
- B 6,4,2,1,3,5
- C 4,6,3,2,5,1
- D 4,6,5,3,1,2

Answer: D

**Explanation:**

The order of organs in a human body from top to bottom is :

= Mouth -> Oesophagus -> Stomach -> Small intestine -> Large intestine -> Rectum

≡ 4,6,5,3,1,2

=> Ans - (D)

**Instructions**

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

**Question 16**

3, 11, 38, 102, 227, ?

- A 245
- B 487
- C 474

D 443

Answer: D

**Explanation:**

here the given series is 3, 11, 38, 102, 227, ?

let the missing term be y

we can see that

$$11 - 3 = 8 = 2^3$$

$$38 - 11 = 27 = 3^3$$

$$102 - 38 = 64 = 4^3$$

$$227 - 102 = 125 = 5^3$$

$$\text{hence } y - 227 = 6^3 = 216$$

$$y = 216 + 227 = 443$$

## SSC CGL Important Questions PDF

**Question 17**

3, 15, 8, 24, 15, 35, ?, 48, 35

A 24

B 46

C 26

D 25

Answer: A

**Explanation:**

the given pattern is 3, 15, 8, 24, 15, 35, ?, 48, 35

let the missing term be y

here we can see that 2 series are running

1st series : 3, 8, 15, y, 35

2nd series : 15, 24, 35, 48

as the missing term is a part of 1st pattern then

$$8 - 3 = 5$$

$$15 - 8 = 7$$

as the difference is increasing by 2 every time and hence

$$y - 15 = 9$$

$$y = 24$$

**Question 18**

AER, DIT, GMV, ?

A JXQ

B JQX

C QJX



D XJQ

**Answer: B**

**Explanation:**

here the given pattern is AER, DIT, GMV, ?

here we can see that first alphabet of every element is 3rd ahead from the previous first alphabet starting from A. Hence the first alphabet of missing term is J

now 2nd alphabet of every element is 4th ahead from the previous 2nd alphabet starting from E, Hence the 2nd alphabet of missing term is Q

now 3rd alphabet of every element is 2nd ahead from the previous 3rd alphabet starting from R, Hence the 3rd alphabet of missing term is X

hence the missing term is JQX

**Instructions**

For the following questions answer them individually

**Question 19**

**From the given alternative words, select the word which can be formed using the letters of the given word. KNOWLEDGE**

A WEDGE

B WONDER

C WEALTH

D FETCH

**Answer: A**

**Explanation:**

From the given alternatives, the only word which can completely be formed using the letters of the given word KNOWLEDGE is WEDGE. option A.

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**Question 20**

**From the given alternative words, select the word which cannot be formed using the letters of the given word. NEIGHBOURHOOD**

A GROUND

B HONOUR

C BRAND

D ROUGH

**Answer: C**

**Explanation:**

From the given alternative words, the only word which cannot be formed using the letters of the given word NEIGHBOURHOOD is BRAND, as there is no 'A' in NEIGHBOURHOOD. option C.

**Question 21**

**The ratio of the present ages of Sunita and Vinita is 4 : 5. Six years hence, the ratio of their ages will be 14 : 17. What will be the ratio of their ages 12 years hence ?**

A 17:19

B 15 : 19

C 13 : 15

D 16 : 19

**Answer: D**

**Explanation:**

Let the present ages be  $4x, 5x$

Given that,  $(4x+6)/(5x+6) = 14/17$

Solving this equation, we get  $x = 9$

We need to find  $(4x+12)/(5x+12)$

By substituting  $x=9$ , we find that this value is  $16/19$

**Question 22**

**Arun is heavier than Govind. Manoj is lighter than John. Pravin is heavier than John but lighter than Govind. Who is the heaviest ?**

A Govind

B John

C Arun

D Pravin

**Answer: C**

**Explanation:**

Given  $G < A$

$M < J$

$J < P$

$P < G$

From the given relations, we can say that  $M < J < P < G < A$

Hence Arun is the heaviest

## General Science Notes for SSC CGL

**Question 23**

**Rama is Sallu's brother; Heera is Sallu's sister's only son. Heera married Rama's daughter. What is the relation between Rama and Neha, who is Heera's daughter?**

A Grand mother - grand daughter

B Uncle - niece

C Father - daughter

D Grand father - grand daughter

**Answer: D**

**Explanation:**

Rama is Sallu's brother;

Heera is Sallu's sister's only son.

Hence, Rama is Heera's uncle.

Heera's daughter is Neha.

hence Rama is Neha's grandfather

**Question 24**

If in a certain code 'DICKINSON' is written as '357950210' and 'DIPP' is written as '3566', then how can 'PICNIC' be written in the same code ?

A 650757

B 657057

C 657507

D 560757

**Answer: B**

**Explanation:**

The codes of the each alphabet will remain same.

Eg = C = 7, I = 5, P = 6, N = 0

Thus, PICNIC = **657057**

=> Ans - (B)

**Question 25**

Given below are capital letters in the first line and symbols in the second line. Symbols and letters are code for each other. Choose the correct code for the word : PRINT

A	C	E	G	H	I	O	N	P	R	T	S	B	D	M
+	-	÷	x	=	(	)	[	]	≠		#		>	<

A [#][|

B ]≠()||

C ]≠([||

D ]||([||

**Answer: C**

**Explanation:**

According to the question,

P -> ]

R -> ≠

I -> (

N -> [

T -> ||

Thus, PRINT = ] ≠ ([||

=> Ans - (C)

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**Question 26**

Which of the following interchange of signs would make the equation correct ?

$49 - 7 + 7 = 14$

- A  $\div$  and +
- B + and -
- C - and  $\div$
- D None of the above.

**Answer: C**

**Explanation:**

option A:  $49 - 7 \div 7 = 14$ , false  
 option B:  $49 - 7 - 7 = 14$ , false  
 option C:  $49 \div 7 + 7 = 14$ , true  
 the correct answer is option C.

**Question 27**

Some letters are given with numbers from 1 to 8. Select the sequence of numbers which arranges the letters into a meaningful word.

l	d	w	o	a	o	n	d
1	2	3	4	5	6	7	8

- A 1,8,3,5,2,4,6,7
- B 4,2,1,6,5,8,3,7
- C 2,4,3,7,1,6,5,8
- D 6,3,2,1,8,5,4,7

**Answer: C**

**Explanation:**

Option A : ldwadoon  
 Option B: odloadwn  
 Option C: download  
 Option D: owlldaon  
 only option C makes sense.

**Question 28**

If in a certain code, 'RESPONSES' is written as 'ESRONPESS', then how can 'SIGNATURE' be written in the same code ?

- A ISNGTARUE
- B ERUTANGIS
- C GISTANERU
- D IGSATNREU

**Answer: D**

**Explanation:**

If in a certain code, 'RESPONSES' is written as 'ESRONPESS', then in that code any general group of letters/ numbers 123456789 will be coded as "231564897". similarly 'SIGNATURE' will be coded as 'IGSATNREU'.  
 option D.

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### Question 29

Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.  
 $2*3 = 17$ ;  $3*4 = 145$ ;  $5*2 = ?$

- A 85
- B 75
- C 57
- D 25

Answer: C

### Explanation:

The pattern followed is that  $a * b = a^b + b^a$

$$\text{Eg } 2*3 = 2^3 + 3^2 = 8 + 9 = 17$$

$$\text{and } 3*4 = 3^4 + 4^3 = 81 + 64 = 145$$

$$\text{Similarly, } 5*2 = 5^2 + 2^5 = 25 + 32 = 57$$

=> Ans - (C)

### Question 30

Select the correct combination of mathematical signs to replace \* signs and to balance the following equation :  
 $(8 * 5 * 6) * 10 * 24$

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

Answer: B

### Explanation:

option A:  $8-5+6 \div 10 = 24$ , not true

option B:  $8 \times 5 \times 6 \div 10 = 24$ , true

therefore the correct answer is option B.

### Question 31

If '>' stands for 'division', v stands for 'multiplication', '-' stands for 'greater than', 'x' stands for 'less than', '<' stands for 'addition', 'A' stands for 'subtraction', '+' stands for 'equal to', then which of the following equations is correct ?

- A  $9 \vee 3 - 1 + 6 > 8 \wedge 9$
- B  $5 \vee 4 < 2 + 10 \vee 2 < 2$
- C  $8 \vee 6 - 3 + 4 > 7 \wedge 6$
- D  $8 \vee 4 - 2 + 5 > 7 \wedge 6$

Answer: B

### Explanation:

If '>' stands for 'division', 'v' stands for 'multiplication', '-' stands for 'greater than', 'x' stands for 'less than', '<' stands for 'addition', 'A' stands for 'subtraction', '+' stands for 'equal to', then

option B:  $5 \vee 4 < 2 + 10 \vee 2 < 2$  will be translated as  $5 \times 4 + 2 = 10 \times 2 + 2$  which is true.

therefore the correct answer is option B.

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### Instructions

In each of the following questions, select the missing number from the given responses.

#### Question 32

3	4	9	16
5	6	25	36
7	8	?	64

- A 18
- B 16
- C 49
- D 15

Answer: C

#### Explanation:

3	4	9	16
5	6	25	36
7	8	?	64

let the missing term be y

here as we can see in column 1 and column 3, terms of column 3 are squares of terms in column 1

and similarly terms in column 4 are squares of terms in column 2

and hence

$$y = 7^2 = 49$$

#### Question 33

25	18	36
12	17	16
5	2	?
60	153	96

- A 3
- B 6
- C 5
- D 4

Answer: B

Explanation:

25	18	36
12	17	16
5	2	?
60	153	96

let the missing term be y

here in column 1st and 2nd we can see that

product of 1st two terms = product of last two terms

$$25 \times 12 = 5 \times 60 \text{ (in 1st column)}$$

$$18 \times 17 = 2 \times 153 \text{ (in 2nd column)}$$

so this pattern will follow for 3rd column also

$$\text{and hence, } 36 \times 16 = y \times 96$$

$$y = 6$$

**Question 34**

900, 899, 891, 864, 800, ?

- A 695
- B 685
- C 675
- D 765

Answer: C

Explanation:

Let the missing number be x

$$900 - 899 = 1 = (1)^2$$

$$899 - 891 = 8 = (2)^3$$

$$891 - 864 = 27 = (3)^3$$

$$864 - 800 = 64 = (4)^3$$

as we can see the pattern between differences of consecutive numbers is of type  $(n)^3$

$$\text{so } x - 800 = (5)^3, \text{ this implies that } x = 8125$$

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Instructions

For the following questions answer them individually

**Question 35**

A man starts walking towards east. After walking 75 metres, he turns to his left and walks 25 metres straight. Again he turns to the left, walks a distance of 40 metres straight, again turns to the left and walks a distance of 25 metres. How far is he from the starting point ?

- A 115m

- B 35 m
- C 50 m
- D 140 m

**Answer: B**

**Explanation:**

the position of the man can be traced as:

start

1. 75 meter EAST
2. 40 meter NORTH , 75 meter EAST.
3. 35 meter EAST.

stop. the man is 35 meters EAST of his initial position. option B.

**Question 36**

**One statement is given followed by two assumptions, I and II. You have to consider the statement to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given assumptions can definitely be drawn from the given statement. Indicate your answer.**

**Statement :**

**Some people are uneducated and therefore, superstitious.**

**Assumptions :**

- I. Education increases rational thinking.**
- II. Some people do not go to schools.**

- A Neither assumption I nor II is implicit
- B Only assumption I is implicit
- C Only assumption II is implicit
- D Both assumptions I and II are implicit

**Answer: D**

**Explanation:**

**Statement :**

Some people are uneducated and therefore, superstitious.

**Assumptions :**

- I. Education increases rational thinking, implicit as statement implies that superstition arises out of being uneducated.
  - II. Some people do not go to schools, implicit as statement implies that some which are uneducated don't attend school for formal education.
- option D.

**Question 37**

**From his house, Ram went 15 km to the north. Then he turned to his left and covered 10 km. Then he again turned to his left and covered 5 km. Finally turning to the east, he covered 10 km. In which direction is he from his house ?**

- A South
- B East
- C West
- D North

**Answer: D**

**Explanation:**

location of Ram can be traced as:



start

1. 15 km NORTH
2. 15 km NORTH, 10 km WEST
3. 10 km NORTH, 10 km WEST
4. 10 km NORTH

stop. his final position is 10 km north of his starting point. option D.

## SSC CGL Free Online Coaching

### Question 38

What inference can you draw from the following two statements ?

- Hybrid plants are resistant to fungus.
- Fungal infection reduces the life of plants.

- A All plants are hybrid plants.
- B For a long life-span grow hybrid plants.
- C Fungus attacks hybrid plants.
- D Yield is more in hybrid plants.

Answer: C

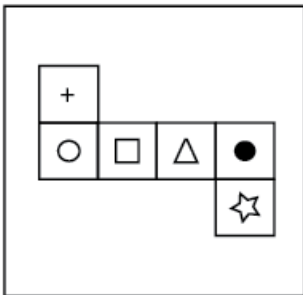
#### Explanation:

The statement clearly states that Hybrid plants are resistant to fungus. Also, the life of plants is reduced by fungal infection. Thus, it can be inferred that fungus attacks hybrid plants.

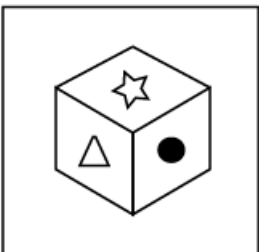
=> Ans - (C)

### Question 39

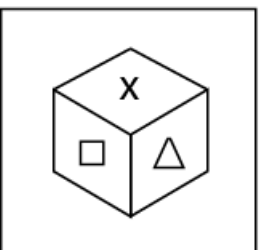
Choose the cube which will be formed on folding the given question Figure.

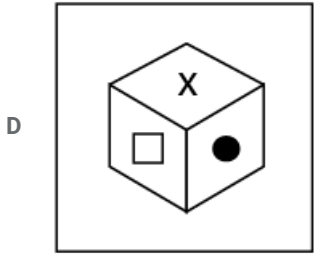
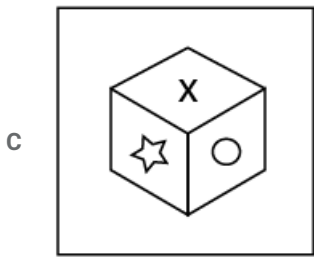


A



B





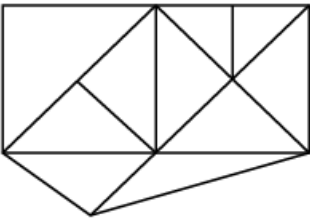
Answer: B

**Explanation:**

Interpreting the cube from question figure, option B is correct view

**Question 40**

How many triangles are there in the given figure ?



A 19 or more

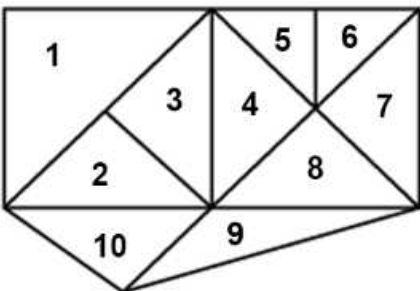
B 10

C 16

D 18

Answer: A

**Explanation:**



1, 2, 3, 4, 5, 6, 7, 8, 9, 10

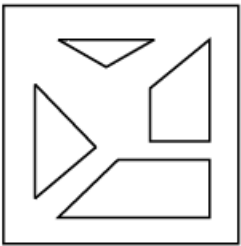
$2 + 3$	$8 + 9$
$8 + 4$	$9 + 10$
$5 + 6$	$2 + 3 + 4 + 8$
$5 + 6 + 7$	$7 + 8 + 9$
$7 + 8$	

Hence there are 19 triangles

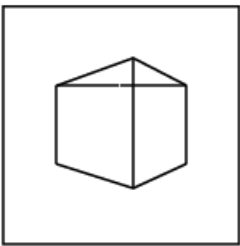
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Question 41

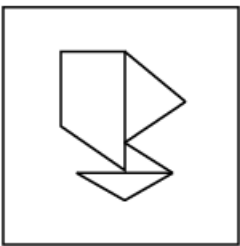
Among the four answer figures, which one can be formed from the cut out pieces given below in the question figure ?



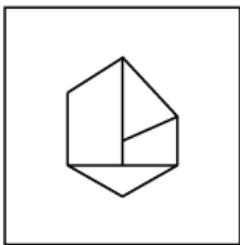
A



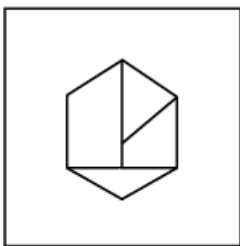
B



C

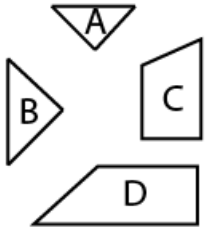


D

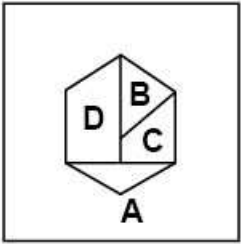


Answer: D

Explanation:

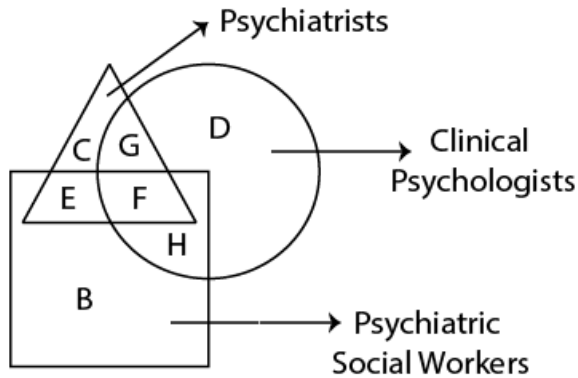


Rearranging A, B, C, D



Question 42

In the given figure, which letter represents Psychiatrists who are Clinical Psychologists, but not Psychiatric Social Workers ?



A H

B E

C G

D F

Answer: C

Explanation:

We need to find Psychiatrists who are Clinical Psychologists, but not Psychiatric Social Workers

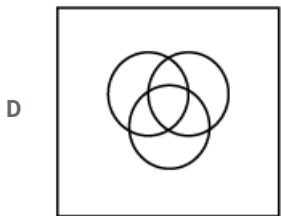
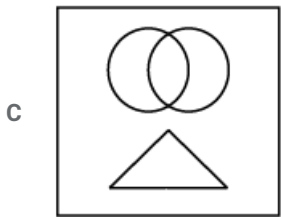
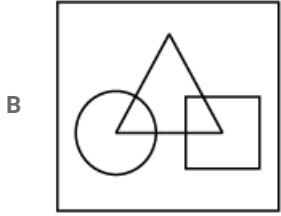
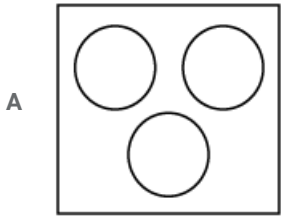
Hence we need to find a part of triangle which is a part of circle but not a part of the square. G represents that part.

Instructions

In each of the following questions, identify the diagram that best represents the relationship among the classes given.

Question 43

Friend, Guide, Philosopher



Answer: D

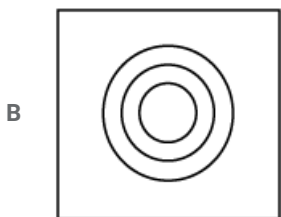
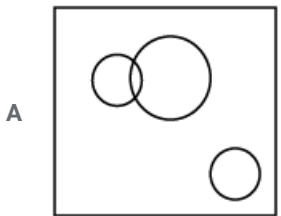
Explanation:

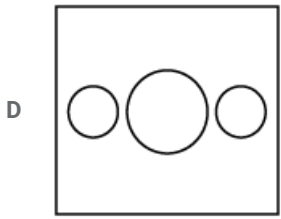
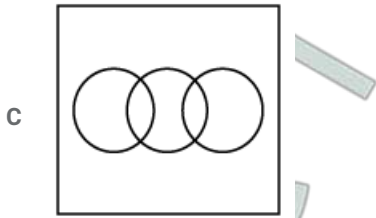
Some friends can be guides and some are not. This is applicable to any 2 terms given. This is best represented by option D.

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Question 44

World, India, Rajasthan





Answer: B

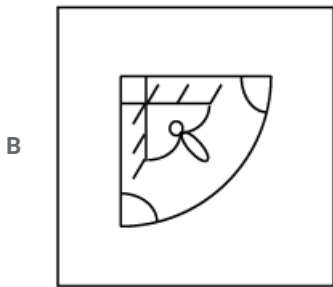
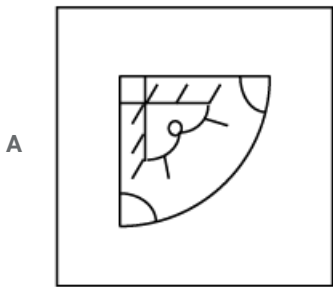
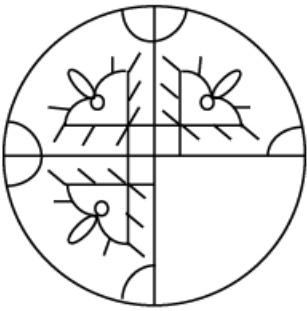
**Explanation:**

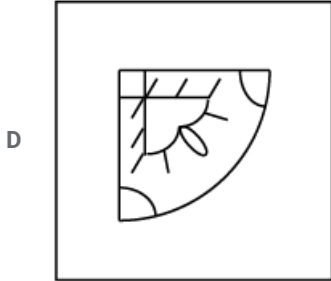
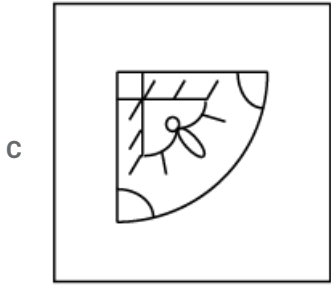
World is the super set of India. India is super set of Rajasthan. Option B best represents this relationship.

**Instructions**

In each of the following questions, which answer figure will complete the pattern in the question figure ?

**Question 45**



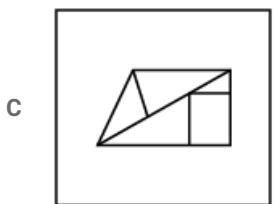
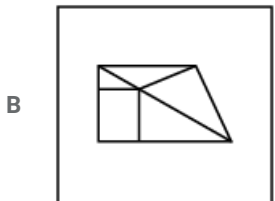
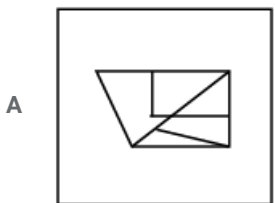
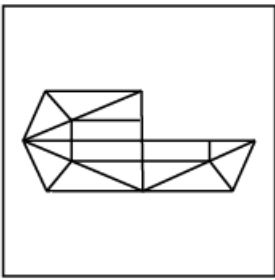


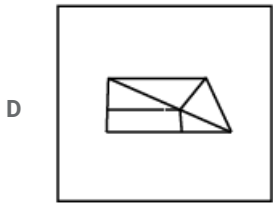
Answer: C

**Explanation:**

It can be seen that option C completes the pattern figure.

**Question 46**





Answer: D

**Explanation:**

It can be seen that option D completes the pattern.

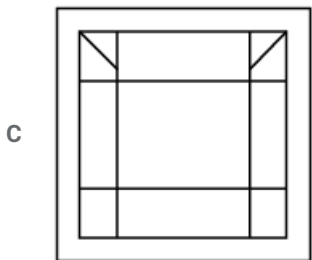
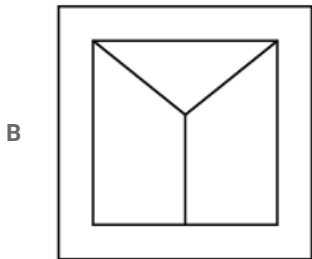
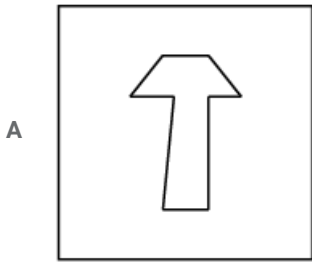
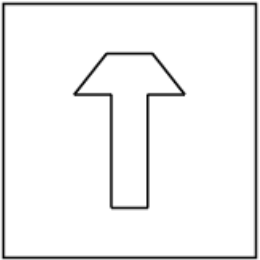
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**Instructions**

For the following questions answer them individually

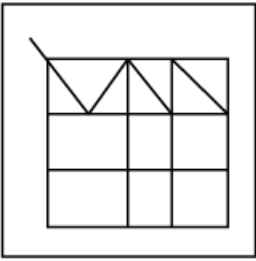
**Question 47**

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





D



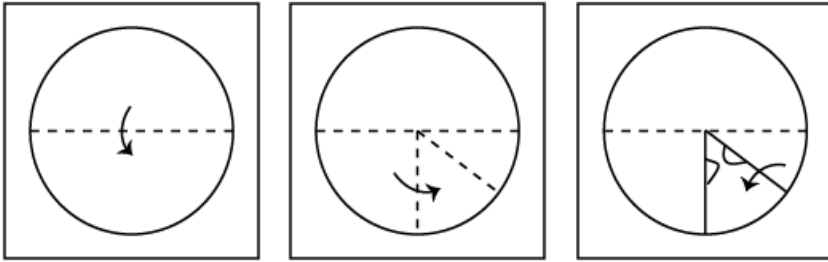
Answer: D

**Explanation:**

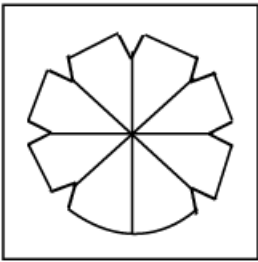
It can be seen that the figure in option D contains the question figure.

**Question 48**

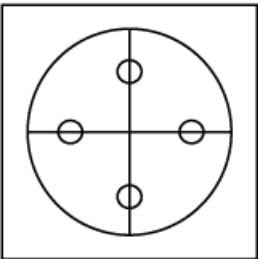
A piece of paper is folded and cut as shown below in the question figures. 'From the given answer figures, indicate how it will appear when opened.



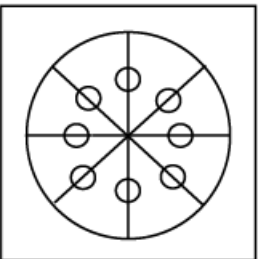
A

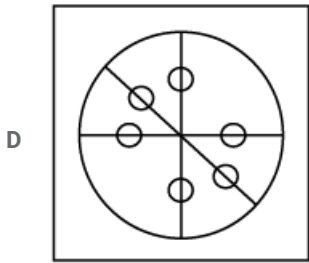


B



C





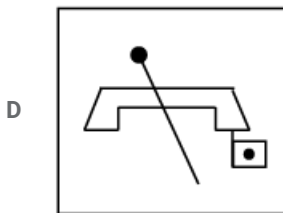
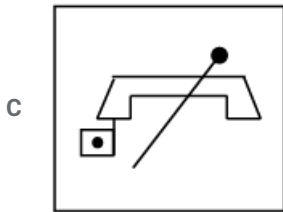
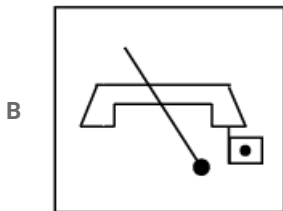
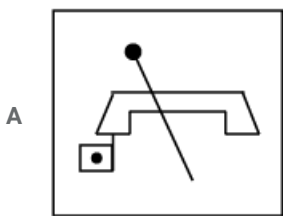
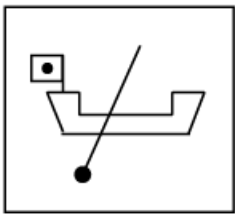
Answer: C

**Explanation:**

There will be 8 circular holes as represented in option C

**Question 49**

If a mirror is placed on the bottom of the figure, then which of the answer figures is the right image of the question figure ?



Answer: A

**Explanation:**

The 180 degree rotation of figure gives us option A which is the mirror image of the given figure.

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### Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'A' can be represented by 34, 86, 97, etc., and T can be represented by 31, 76, 96, etc. Similarly, you have to identify the number set for the word, given below :

NOISE

MATRIX I

	0	1	2	3	4
0	G	V	E	A	C
1	R	O	N	G	S
2	M	N	E	S	I
3	O	T	I	T	A
4	N	S	N	E	P

MATRIX II

	5	6	7	8	9
5	R	E	O	N	G
6	N	P	V	E	S
7	M	T	I	O	N
8	E	A	I	C	O
9	N	T	A	R	S

- A 79, 78, 77, 14, 20
- B 40, 57, 77, 69, 79
- C 21, 78, 87, 99, 88
- D 12, 30, 32, 69, 85

Answer: D

#### Explanation:

N can be represented by 12  
O can be represented by 30  
I can be represented by 32  
S can be represented by 69  
E can be represented by 85  
Hence, option D

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General Awareness

#### Instructions

For the following questions answer them individually

### Question 51

Interest paid to a bank for a crop loan is what kind of economic activity?

- A intermediate consumption
- B a transfer payment
- C a factor payment
- D capital formation

**Answer: C**

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### Question 52

**Economic growth refers to**

- A continuous growth of agriculture sector
- B prevention of concentration of wealth
- C continuous growth of national income for at least two years
- D continuous growth of per capita real income over a period of time in an economy

**Answer: D**

### Question 53

**Which of the following statements is incorrect ?**

- A Economy faces the problem of excess of resources.
- B The central problem of an economy is the problem of allocation of resources.
- C Economy faces the problem of utilisation of resources.
- D Economy faces the problem of growth of resources.

**Answer: A**

### Question 54

**In the case of direct taxes, the payment liability and the ultimate burden of the tax lies upon**

- A both on whom it has been imposed and on whom it is not imposed
- B the person on whom it has been imposed
- C the person on whom it has not been imposed
- D the tax department who collects the taxes

**Answer: B**

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### Question 55

**Which economic system is based on the principle of surplus value ?**

- A Communism
- B Capitalism
- C Individualism
- D Idealism

**Answer: B**

**Question 56**

**Which democracy provides Representative Government ?**

- A Presidential form of Government
- B Indirect Democracy
- C Direct Democracy
- D Democracy

**Answer: B**

**Question 57**

**What is the main duty of the Legislature ?**

- A Central administration
- B Enacting laws
- C Implementing judicial matters
- D Implementing laws

**Answer: B**

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**Question 58**

**Chandragupta Maurya spent his last days at**

- A Kashi
- B Pataliputra
- C Ujjain
- D Sravanabelgola

**Answer: D**

**Question 59**

**If only a part of the labour force employed by a firm can be dismissed at any time and without pay, the total wages and salaries paid by the firm must be considered**

- A neither a fixed cost nor a variable cost

- B a variable cost
- C a fixed cost
- D partly a fixed and partly a variable cost

**Answer: B**

**Question 60**

**Members of the Union Public Service Commission are appointed by the**

- A Law Minister
- B President
- C Prime Minister
- D Chief Justice

**Answer: B**

## SSC CGL Tier-2 Previous Papers PDF

**Question 61**

**Who said, "A state is known by the rights that it maintains" ?**

- A Machiavelli
- B Laski
- C Maclver
- D J.S. Mill

**Answer: B**

**Question 62**

**A member of Liliaceae that shows reticulate venation is**

- A Allium
- B Scilla
- C Smilax
- D Aloe

**Answer: C**

**Question 63**

**Euphenics is**

- A Treatment of defective heredity through genetic engineering
- B Manipulation of genes
- C Improvement of race

D Study of conditions affecting organisms

Answer: A

## SSC CGL Important Questions PDF

Question 64

Araneology is

- A Study of mites
- B Rearing of bees
- C Study of aphids
- D Study of spiders

Answer: D

Question 65

What does "Corpus luteum" secrete ?

- A Progesterone
- B Testosterone
- C Estrogen
- D Haemoglobin

Answer: A

Question 66

The male sex hormone is

- A Progesterone
- B Estrogen
- C Testosterone
- D Insulin

Answer: C

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Question 67

Buddha died in the year

- A 483 BC
- B 438 BC
- C 453 BC
- D 468 BC

**Answer: A**

**Question 68**

The new name of Burma is Myanmar and its capital is

- A Naypyidaw
- B Arakan
- C Rangoon
- D Ava

**Answer: A**

**Question 69**

The famous Jain centre in South India is located at

- A Rameshwaram
- B Canchi
- C Madurai
- D Sravanabelgola

**Answer: D**

**General Science Notes for SSC CGL**

**Question 70**

The Asokan Inscriptions were engraved in which script ?

- A Magadhi
- B Brahmi
- C Pali
- D Devanagari script

**Answer: B**

**Question 71**

Which of the following lakes is called 'Honeymoon Lake' ?

- A Nyasa
- B Chad
- C Titicaca
- D Toba

**Answer: C**



**Question 72**

**Harmattan blows in Sahara desert from**

- A South to North
- B East to West
- C West to East
- D North to South

**Answer: B**

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**Question 73**

**The busiest ocean from the point of view of trade is**

- A Arctic Ocean
- B Pacific Ocean
- C Indian Ocean
- D Atlantic Ocean

**Answer: D**

**Question 74**

**The forest in Silent Valley of Kerala is an example of**

- A mangrove forest
- B deciduous forest
- C tropical rainforest
- D alpine coniferous forest

**Answer: C**

**Question 75**

**Annaimudi peak is located in the**

- A Sahyadri
- B Eastern Ghats
- C Nilgiri hills
- D Palni hills

**Answer: A**

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**Question 76**

**Commercially important cotton fibres are**

- A bark fibres of stems
- B epidermal hairs of seeds
- C woody fibres of roots
- D phloem fibres of roots

**Answer: B**

**Question 77**

**Herman Hollerith had perfected his tabulating system and developed a machine called**

- A Analytical Engine
- B Census Tabulator
- C Tabulation Engine
- D None of the above

**Answer: C**

**Question 78**

**DBMS used for building computer applications stands for**

- A Database Micro System
- B Database Machine System
- C Database Maintenance System
- D Database Management System

**Answer: D**

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**Question 79**

**The total energy of an electron inside an atom is**

- A Infinite
- B Zero
- C more than zero
- D less than zero

**Answer: D**

**Question 80**

**The velocity of light is**

- A  $3 \times 108$  m/sec
- B  $3 \times 108$  km/sec
- C  $3 \times 108$  miles/sec
- D  $3 \times 108$  cm/sec

**Answer: A**

**Question 81**

**A seconds pendulum is a pendulum whose time period is**

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

**Answer: D**

**Explanation:**

p

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**Question 82**

**A jug is filled the brim with water at  $0^{\circ}\text{C}$ . A piece of ice floats in it. The moment the ice melts.**

- A water spills out of the jug
- B water level increases
- C water level decreases
- D water level is unchanged

**Answer: D**

**Question 83**

**The rusting of metal iron in air needs both**

- A Oxygen and grease
- B Oxygen and moisture
- C Carbon dioxide and moisture
- D Water and paint

**Answer: B**

**Question 84**

**Arsenic problem in India is primarily due to**

- A Overexploitation of surface water in the affected areas

- B Overexploitation of arsenopyrite in the hinterland
- C Overexploitation of coal in Bihar and Bengal
- D Overexploitation of ground water in the affected areas

Answer: D

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Question 85

Acid rain is caused by

- A NO<sub>2</sub> and O<sub>2</sub>
- B CO and CO<sub>2</sub>
- C SO<sub>2</sub> and O<sub>2</sub>
- D SO<sub>2</sub> and NO<sub>2</sub>

Answer: D

Question 86

Iodine test is used to detect

- A Cholesterol
- B Carbohydrate
- C Protein
- D Fat

Answer: B

Question 87

Which of the following is used in pencils ?

- A Charcoal
- B Graphite
- C Sulphur
- D Phosphorus

Answer: B

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Question 88

The branch of medicine involving synthetic chemical compounds is

- A Unani
- B Ayurveda

- C Allopathy
- D Homoeopathy

**Answer: C**

**Question 89**

**Who is the author of the book "Romancing With Life" ?**

- A Shashi Tharoor
- B Bill Clinton
- C Kapil Dev
- D Dev Anand

**Answer: D**

**Question 90**

**Which Mughal Emperor prohibited the use of tobacco?**

- A Muhammad Shah
- B Babur
- C Jahangir
- D Aurangzeb

**Answer: C**

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**Question 91**

**A South Rajasthani tribe earning its living by song and dance is**

- A Mayas
- B Moors
- C Khasis
- D Garasia

**Answer: D**

**Question 92**

**Hydrogen was discovered by**

- A Cavendish
- B Priestley
- C Boyle
- D Charles

**Answer: A**

**Question 93**

The biggest delta in the world is the

- A Nippon Delta
- B Sicily Delta
- C Ganges Delta
- D Caspian Delta

**Answer: C**

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**Question 94**

Absorption of water from cut ends of stems disproves the

- A Imbibitional pressure theory
- B Theory of Capillarity
- C Cohesion-tension
- D Root pressure theory

**Answer: C**

**Question 95**

The loss of water in the form of water droplets is called

- A Bleeding
- B Transpiration
- C Guttation
- D Evaporation

**Answer: C**

**Question 96**

"Vatsalya Mela" is annually organised in

- A Chandigarh
- B Bangalore
- C New Delhi
- D Bhopal

**Answer: C**

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**Question 97**

**Who is the Director General of the BBC ?**

- A Tony Hall
- B Jimmy Savile
- C George Entwistle
- D Karan Thapur

**Answer: A**

**Question 98**

**Who is Australia's High Commissioner to India ?**

- A Simon Tirkey
- B M.P. Samuel
- C Peter Varghese
- D Patrick Suckling

**Answer: D**

**Question 99**

**Who was elected as the President of India Football Federation ?**

- A Praful Patel
- B Hardev Jadeja
- C Subrata Dutta
- D Shrinivas V. Dempo

**Answer: A**

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**Question 100**

**Who took over as the Chairman of Tata Sons ?**

- A Ratan Tata
- B Shapoor Mistry
- C Ravikant
- D Cyrus Pallonji Mistry

**Answer: D**

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## Quant

### Instructions

For the following questions answer them individually

### Question 101

The area of the iron sheet required to prepare a cone 24 cm high with base radius 7 cm is (Take  $\pi = \frac{22}{7}$ )

- A 408 cm<sup>2</sup>
- B 708 cm<sup>2</sup>
- C 804 cm<sup>2</sup>
- D 704 cm<sup>2</sup>

**Answer: D**

### Explanation:

Surface area of cone =  $\frac{22}{7} \times r \times (r + L)$

where L=slant height

$$L = \sqrt{(r)^2 + (h)^2}$$

Here when  $r=7$  and  $h=24$ ,

$$L = \sqrt{(7)^2 + (24)^2} = \sqrt{625} = 25\text{cm}$$

$$\text{Area, } A = \frac{22}{7} \times 7 \times (7 + 25)$$

$$A = 704 \text{ (cm)}^2$$

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Question 102

The least prime number is

- A 2
- B 0
- C 1
- D 3

**Answer: A**

### Explanation:

0 and 1 are not prime numbers

Between 2 and 3(both prime numbers), 2 is smaller

2 is the least prime number. (It is also the only even prime number).

### Question 103

Find the least number which when divided by 12, 18, 36 and 45 leaves the remainder 8, 14, 32 and 41 respectively.

- A 186
- B 176
- C 180
- D 178

**Answer: B**



**Explanation:**

Since,  $(12-8) = (18-14) = (36-32) = (45-41) = 4$

we, need to find the L.C.M. of 12,18,36,45 and subtract 4 from it to get the required answer.

=> L.C.M. of 12, 18, 36 and 45 = 180

=>  $180 - 4 = 176$

Ans - (B)

**Question 104**

An empty pool being filled with water at a constant rate takes 8 hours to fill  $\frac{3}{5}$  th of its capacity. How much more time will it take to finish filling the pool ?

- A 4 hours 50 minutes
- B 5 hours 30 minutes
- C 5 hours 20 minutes
- D 4 hours 48 minutes

**Answer: C**

**Explanation:**

Let the volume of pool is V

For  $\frac{3}{5}V$ , time= 8hrs

For remaining capacity,  $\frac{2}{5}V$ , time=t

Using unitary method,

$$\frac{3/5}{2/5} = \frac{8}{t}$$

$$t = 5\frac{1}{3}$$

or t= 5hours 20minutes

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**Question 105**

P can do a piece of work in 9 days. Q is 50% more efficient than P. The number of days it takes for Q to do the same piece of work is

- A 3
- B  $13\frac{1}{2}$
- C  $4\frac{1}{2}$
- D 6

**Answer: D**

**Explanation:**

P can do a piece of work in 9 days.

let efficiency of p is 100%

then efficiency of Q will be 150%

let Q can do the same piece of work in x days.

work is constant. so

efficiency\*no of days = constant

$$100*9 = 150*x$$

$$x = 6.$$

answer is option D.

**Question 106**

Sixteen men can complete a work in fifteen days, twenty-four children can do the same work in twenty days. In how many days will eight men and eight children, complete the same work ?

A 18 days

B 16days

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

D 20 days

**Answer: D**

**Explanation:**

16 men can complete a work in 15 days

1 man can complete the work in  $(16*15)$  days

24 children can do the same work in 20 days

1 child can complete the work in  $(24*20)$  days

let x be the no.of days taken by 8 men and 8 children to complete the work, then

$$1/x = 8/(16*15) + 8/(24*20)$$

$$1/x = 1/30 + 1/60$$

$$1/x = 3/60$$

$$x = 20$$

answer is option D.

**Question 107**

What is a better investment, 4% stock at 120 or 3% stock at 80 ?

A First

B Second

C Both

D None of these

**Answer: A**

**Explanation:**

$$4\% \text{ stock at } 120 = \frac{4}{100} \times 120 = 4.80/-$$

$$3\% \text{ stock at } 80 = \frac{3}{100} \times 80 = 2.40/-$$

1st one is better than 2nd one.

so the answer is option A.

**Question 108**

20% raise of price followed by a discount of 25% of the raised portion will

- A decrease the price by 15%
- B increase the price by 10%
- C decrease the price by 5%
- D increase the price by 15%

**Answer: D**

**Explanation:**

Let original price =  $100x$

$$\text{Raise of 20\%} \Rightarrow \frac{20}{100} * 100x = 20x$$

$$\Rightarrow \text{Price becomes} = 100x + 20x = 120x$$

$$\text{Now, 25\% discount on 'raised' price} = \frac{25}{100} * 20x = 5x$$

$$\Rightarrow \text{New price} = 120x - 5x = 115x$$

which is 15 % more than the original price.

**Question 109**

The sum of the ages of two brothers, having a difference of 8 years between them, will double after 10 years. What is the ratio of the age of the younger brother to that of the elder brother ?

- A 10 : 13
- B 7 : 11
- C 3 : 7
- D 8 : 9

**Answer: C**

**Explanation:**

Let the age of 1st brother be A years and of 2nd be B years

$$\text{It is given that } A - B = 8 \text{ years} \dots\dots\dots(1)$$

and after 10 years ,

$$(A + 10) + (B + 10) = 2(A + B)$$

$$A + B = 20 \dots\dots\dots(2)$$

from equation 1 and 2

$$A = 14 \text{ years}$$

$$B = 6 \text{ years}$$

$$\frac{B}{A} = \frac{6}{14} = \frac{3}{7}$$

**Question 110**

On decreasing each side of an equilateral triangle by 2 cm, there is a decrease of  $\frac{4}{3}$  cm<sup>2</sup> in its area. The length of each side of the triangle is

- A 8 cm

- B 3 cm
- C 5 cm
- D 6 cm



Answer: C

Explanation:

Area of an equilateral triangle =  $\left(\frac{\sqrt{3}}{4}\right) \times (a)^2$

where a is side.

When a reduced to (a-2)

Area difference =  $4\sqrt{3}$

$\left(\frac{\sqrt{3}}{4}\right)((a)^2 - (a - 2)^2) = 4\sqrt{3}$

$4a - 4 = 16$

$a = 5$  (C)

## SSC CGL Important Questions PDF

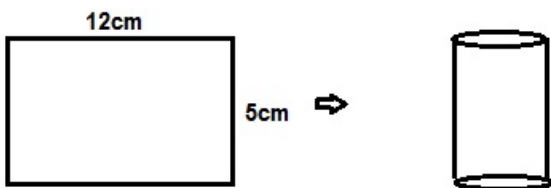
Question 111

A rectangular tin sheet is 12 cm long and 5 cm broad. It is rolled along its length to form a cylinder by making the opposite edges just touch each other. Then the volume of the cylinder is

- A  $\frac{60}{\pi} \text{ cm}^3$
- B  $\frac{180}{\pi} \text{ cm}^3$
- C  $\frac{120}{\pi} \text{ cm}^3$
- D  $\frac{100}{\pi} \text{ cm}^3$

Answer: B

Explanation:



From the above figure circumference of cylinder = 12 cm

So  $2\pi R = 12$

$$R = \frac{12}{2\pi}$$

Volume of cylinder =  $\pi(R)^2 h$

where h and R are height and radius

So volume,  $V = \pi\left(\frac{12}{2\pi}\right)^2 \times 5$

$$V = \frac{180}{\pi} \text{ cm}^3$$

**Question 112**

A merchant advertises 10% off on the items bought from his store. The total discount got by a customer who bought a cooker worth 650, a heater worth 500 and a bag worth 65 is

- A 121.50
- B 120.50
- C 123.50
- D 128.50

**Answer:** A

**Explanation:**

Discount % on the items = 10%

$$\text{Discount on cooker worth 650} = \frac{10}{100} * 650 = 65$$

$$\text{Discount on heater worth 500} = \frac{10}{100} * 500 = 50$$

$$\text{Discount on bag worth 65} = \frac{10}{100} * 65 = 6.50$$

$$\Rightarrow \text{Total discount} = 65 + 50 + 6.50 = 121.50$$

**Question 113**

If  $2x + 3y = \frac{11}{2}$  and  $xy = \frac{5}{6}$  then the value of  $8x^3 + 27y^3$  is

- A 583
- B  $-\frac{583}{4}$
- C 187
- D  $-\frac{429}{8}$

**Answer:** D

**Explanation:**

$$2x + 3y = \frac{11}{2}$$

cubing on both sides

$$(2x + 3y)^3 = \left(\frac{11}{2}\right)^3$$

$$8x^3 + 27y^3 + 3(2x)(3y)(2x + 3y) = \frac{1331}{8}$$

$$8x^3 + 27y^3 + 3(6xy)(2x + 3y) = \frac{1331}{8}$$

$$8x^3 + 27y^3 + 3(6)\left(\frac{5}{6}\right)\left(\frac{11}{2}\right) = \frac{1331}{8}$$

$$8x^3 + 27y^3 + 220 = \frac{1331}{8}$$

$$8x^3 + 27y^3 = \frac{1331}{8} - 220$$

$$8x^3 + 27y^3 = \frac{1331}{8} - \frac{1760}{8} = -\frac{429}{8}$$

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**Question 114**

If  $x^4 + \frac{1}{x^4} = 119$ , then the value of  $x^3 - \frac{1}{x^3}$  is

- A  $\pm 33$
- B 36
- C -36
- D  $\pm 36$

**Answer: D**

**Explanation:**

$$(x^2 + \frac{1}{x^2})^2 = x^4 + \frac{1}{x^4} + 2 * x^2 * \frac{1}{x^2}$$

$$= 119 + 2$$

$$= 121$$

$$x^2 + \frac{1}{x^2} = 11$$

$$(x - \frac{1}{x})^2 = x^2 + \frac{1}{x^2} - 2 * x * \frac{1}{x}$$

$$= 11 - 2$$

$$= 9$$

$$x - \frac{1}{x} = \pm 3$$

$$\text{now } (x - \frac{1}{x})^3 = x^3 - \frac{1}{x^3} - 3 * x * \frac{1}{x} (x - \frac{1}{x})$$

$$\text{if } x = 3 \text{ then } x^3 - \frac{1}{x^3} = 3^3 + 3 * 3$$

$$= 27 + 9$$

$$= 36$$

$$\text{Similarly if } x = -3 \text{ then } x^3 - \frac{1}{x^3} = (-3)^3 + (-3) * 3 = -27 - 9 = -36$$

**Question 115**

The ratio of two numbers is 3 : 4 and their LCM is 180. The second number is

- A 30
- B 60
- C 45
- D 90

**Answer: B**

**Explanation:**

As the numbers are in the ratio 3:4

so assume the numbers are 3z and 4z

LCM of 3z and 4z = 12z

it is given that LCM of the above two numbers are = 180

So, 12z = 180

z = 15

and hence 2nd number = 4z = 4 x 15 = 60

**Question 116**

Out of 30 teachers of a school, a teacher of age 60 years retired. In his place another teacher of age 30 years was appointed. As a result, the mean age of the teachers will

- A decrease by 2 years
- B decrease by 6 months

C decrease by 1 year

D remain same

**Answer: C**

**Explanation:**

initial number of teachers = 30

Let the initial average age be z years

$$\text{Average} = \frac{\text{sum of ages}}{\text{number of person}}$$

So total initial age = 30z

Now it is given that a teacher of 60 years is replaced by 30 years .So

Total final age of teachers = 30z -60+30 = 30z-30

Number of teachers = 30

$$\text{New average} = \frac{30z-30}{30} = z-1$$

And hence we can say that due to given replacement the average age will decrease by 1

## General Science Notes for SSC CGL

**Question 117**

Average age of A, B and C is 84 years. When D joins them the average age becomes 80 years. A new person, E, whose age is 4 years more than D, replaces A and the average of B, C, D and E becomes 78 years. What is the age of A ?

A 50 years

B 60 years

C 70 years

D 80 years

**Answer: D**

**Explanation:**

avg age of a,b,c = 84

$$\frac{A+B+C}{3} = 84$$

$$A+B+C = 84*3 = 252 \dots\dots\dots(1)$$

$$\text{similarly, } \frac{A+B+C+D}{4} = 80$$

$$A+B+C+D = 80*4 = 320$$

so using (1)

$$252 + D = 320$$

$$D = 68 \text{ i.e, } E = 72 \text{ (as mentioned in the question)} \dots\dots\dots(2)$$

$$\frac{B+C+D+E}{4} = 78$$

$$B+C+D+E = 78*4 = 312$$

using (2)

$$B+C+68+72 = 312$$

$$B+C = 172 \dots\dots\dots(3)$$

put (3) in (1)

A = 80

**Question 118**

By selling an article for ₹ 450, a man loses 10%. The gain or loss per cent if he sells it for ₹ 540 is

- A gain 8%
- B loss 8%
- C gain 9%
- D loss 9%

**Answer: A**

**Explanation:**

S.P = 450

Loss % = 10%

Let C.P. =  $x$

$$\Rightarrow \frac{x-450}{x} * 100 = 10$$

$$\Rightarrow 9x = 4500 \Rightarrow x = 500$$

Now, C.P. = 500 and S.P. = 540

$$\Rightarrow \text{Profit \%} = \frac{540-500}{500} * 100 = 8\%$$

**Question 119**

A man loses 20 1/2% of his money and after spending 80% of the remainder, he is left with ₹ 159. How much did he have at first ?

- A 1,200
- B 500
- C 800
- D 1,000

**Answer: D**

**Explanation:**

Let the initial amount of money be ₹  $z$

As it is mentioned that the person loses 20 1/2% means the person is left with  $= (z - \frac{41}{2 \times 100} \times z) = ₹ 0.795 z$

And it is mentioned that after spending 80 % of the remainder he is left with only ₹ 159

$$\text{So, } 0.795 z - \frac{80}{100} \times 0.795 z = 0.2 \times 0.795 z = 159$$

$$z = ₹ 1000$$

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**Question 120**

A gun is fired at a distance of 1.34 km from Geeta. She hears the sound after 4 seconds. The speed at which sound travels is

- A 325 m/sec
- B 335 m/sec



C 330 m/sec

D 300 m/sec

**Answer: B**

**Explanation:**

speed = distance/time =  $1.34\text{km}/4\text{sec} = 1340\text{m}/4\text{sec} = 335\text{m/s}$ .

so the answer is option B.

**Question 121**

If I walk at 5km/hr, I miss a train by 7 minutes. However, if I walk at 6 km/hr I reach the station 5 minutes before the departure of the train. The distance between my house and the station is

A 5 km

B 6.5 km

C 7 km

D 6 km

**Answer: D**

**Explanation:**

let the distance between b/w home and station is xkm

time= distance/speed

distance = time\*speed

in both cases distance is same.

so,

$$t_1 - 7/60 = t_2 + 5/60$$

$$x/5 - 7/60 = x/6 + 5/60$$

$$x = 6\text{km}$$

answer is option D.

**Question 122**

The compound interest on =1,800 at 10% per annum for a certain period of time is 378. Find the time in years.

A 2.0 years

B 2.8 years

C 3.0 years

D 2.5 year

**Answer: A**

**Explanation:**

Principal Amount (P) = Rs 1800

Rate of Interest = 10%

Compound Interest = Rs 378

Let the time period be T

So

$$C.I = P\left(1 + \frac{R}{100}\right)^T - P$$

$$378 = 1800\left(1 + \frac{10}{100}\right)^T - 1800$$

$$T = 2 \text{ years}$$

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### Question 123

The value of  $204 \times 197$  is

- A 40218
- B 40188
- C 40212
- D 39812

Answer: B

Explanation:

$$200 \times 197 = (200 + 4)(200 - 3) = (200)^2 + 4(200) - 3(200) - 12 = 40000 + 200 - 12 = 40188$$

so the answer is option B.

### Question 124

The value of  $((\sqrt[n]{x^2})^2)^2$  is

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

Answer: D

Explanation:

$$((\sqrt[n]{x^2})^2)^2 = (\sqrt[n]{x^2})^n = x^2$$

so the answer is option D.

### Question 125

$(\sqrt{3})^5 \times 9^2 = 3^n \times 3\sqrt{3}$  then find the value of n

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

Answer: A

Explanation:

$$(\sqrt{3})^5 \times 9^2 = 3^n \times 3\sqrt{3}$$

$$(3)^{\frac{5}{2}} \times 3^4 = 3^n \times (3)^{\frac{3}{2}}$$

$$(3^{\overline{2}})^{\overline{2}} = 3^n \times (3^{\overline{2}})^{\overline{2}}$$

$$(3^{\overline{10}})^{\overline{2}} = 3^n$$

$$n = 5$$

so the answer is option A.

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### Question 126

If  $p = 99$ , then the value of  $p(p^2 + 3p + 3)$  is

A 1000001

B 9999999

C 1000001

D 999999

Answer: D

Explanation:

$$p(p^2 + 3p + 3)$$

$$= p^3 + 3p^2 + 3p$$

$$= p^3 + 3p^2 + 3p + 1 - 1$$

$$= (p + 1)^3 - 1$$

$$= (99 + 1)^3 - 1$$

$$= (100)^3 - 1$$

$$= 1000000 - 1$$

$$= 999999$$

so the answer is option D.

### Question 127

$\sin^6\theta + \cos^6\theta$  is equal to

A 1

B  $1 - 3\sin^2\theta\cos^2\theta$

C  $1 - 3\sin\theta\cos\theta$

D  $1 + 3\sin^2\theta\cos^2\theta$

Answer: B

Explanation:

$$\sin^6\theta + \cos^6\theta = (\sin^2\theta)^3 + (\cos^2\theta)^3$$

Consider

$$(\sin^2\theta + \cos^2\theta)^3 = \sin^6\theta + \cos^6\theta + 3\sin^4\theta\cos^2\theta + 3\sin^2\theta\cos^4\theta$$

$$1 = \sin^6\theta + \cos^6\theta + 3\sin^4\theta\cos^2\theta + 3\sin^2\theta\cos^4\theta$$

$$1 = \sin^6\theta + \cos^6\theta + 3\sin^2\theta\cos^2\theta(\sin^2\theta + \cos^2\theta)$$

$$1 - 3\sin^2\theta\cos^2\theta(\sin^2\theta + \cos^2\theta) = \sin^6\theta + \cos^6\theta$$

$$1 - 3\sin^2\theta\cos^2\theta = \sin^6\theta + \cos^6\theta$$

Hence Option B is the correct answer.

**Question 128**

If  $\tan \theta + \cot \theta = 2$ ,  $0 < \theta < 90^\circ$ , then the value of  $\theta$  is

- A  $75^\circ$
- B  $30^\circ$
- C  $45^\circ$
- D  $60^\circ$

**Answer:** C

**Explanation:**

$$\tan \theta + 1/\tan \theta = 2$$

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

$$\sec^2 \theta = 2 \tan \theta$$

$$\frac{\text{hypotenuse}^2}{\text{adjacent side}^2} = 2 \frac{\text{opposite side}}{\text{adjacent side}}$$

$$\frac{\text{hypotenuse}^2}{\text{adjacent side}} = 2 * \text{opposite side}$$

$$\frac{\text{hypotenuse}}{\text{adjacent side}} = 2 * \frac{\text{opposite side}}{\text{adjacent side}}$$

$$1/\cos \theta = 2 \sin \theta$$

$$\sin \theta \cdot \cos \theta = 1/2$$

We know that, when  $\theta = 45$  degrees, this relation will hold true.

Therefore, option C is the right answer.

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**Question 129**

The expression  $1 - \frac{\cos^2 A}{1 - \sin A}$

- A  $-\sin A$
- B  $\sin A$
- C  $\cos A$
- D  $\tan A$

**Answer:** A

**Explanation:**

we need to find value of  $1 - \frac{\cos^2 A}{1 - \sin A}$

$$\text{We know that } 1 = \sin^2 \theta + \cos^2 \theta$$

$$\text{Using this we can say } 1 + \frac{\cos^2 A}{1 - \sin A} = 1 - \frac{1 - \sin^2 A}{1 - \sin A}$$

$$= 1 - 1 - \sin A$$

$$= -\sin A$$

**Question 130**

The shadow of a tower standing on a level ground is found to be 40 metre longer when the sun's altitude is  $30^\circ$  than when it is  $60^\circ$ . Find the length of the tower,

- A  $20\sqrt{3}$  m
- B 10 m

C  $10\sqrt{3}$  m

D 20 m

Answer: A

**Explanation:**

We know that, length of shadow will be equal to the adjacent side and the height of tower is the opposite side of the triangle. We have been given that difference in lengths of shadows = 40m.

Length of shadow =  $h \tan A$ .

$$h \tan 60 - h \tan 30 = 40$$

$$h\sqrt{3} - h/\sqrt{3} = 40$$

$$(3h - h)/\sqrt{3} = 40$$

$$2h = 40\sqrt{3}$$

$$h = 20\sqrt{3} \text{ m.}$$

Option A is the right answer.

**Question 131**

The length of the shadow of a tower is 9 metres when the sun's altitude is  $30^\circ$ . What is the height of the tower ?

A  $3\sqrt{3}$  m

B  $4\frac{1}{2}$  m

C  $9\sqrt{3}$  m

D  $\frac{9\sqrt{3}}{2}$  m

Answer: A

**Explanation:**

Length of shadow will be the adjacent side.

Height of tower will be the opposite side.

Hence,  $\tan 30 = \text{height/length}$

$$1/\sqrt{3} = h/9$$

$$\Rightarrow h = 3\sqrt{3}$$

Option A is the right answer.

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**Question 132**

$\frac{1}{2}(a - b)^2 + ab = p(a + b)^2$  then the value of p is (assume that  $a \neq -b$ )

A  $\frac{1}{8}$

B 12

C  $\frac{1}{2}$

D  $\frac{1}{4}$

Answer: D

**Explanation:**

$$\frac{1}{2}(a - b)^2 + ab = p(a + b)^2$$

The given expression can be written as  $((a - b)^2 + 4ab = 4p(a + b)^2$

$$a^2 + b^2 - 2ab + 4ab = 4p(a + b)^2$$

$$a^2 + b^2 + 2ab = 4p(a + b)^2$$

$$(a + b)^2 = 4p(a + b)^2$$

Hence,  $p = 1/4$

Option D is the right answer.

**Question 133**

If  $999x + 888y = 1332$  and  $888x + 999y = 555$ , then  $x^2 - y^2$  is equal to

A 9

B 5

C 7

D 8

Answer: C

**Explanation:**

$$999x + 888y = 1332 \dots\dots\dots(1)$$

$$888x + 999y = 555 \dots\dots\dots(2)$$

subtract (1) & (2)

$$111x - 111y = 777$$

divide the equation by 7

$$x - y = 7 \dots\dots\dots(3)$$

add (1) & (2)

$$1887x + 1887y = 1887$$

divide the equation by 1887

$$x + y = 1 \dots\dots\dots(4)$$

now

$$x^2 - y^2 = (x - y)(x + y)$$

put values from (3) & (4)

$$\text{therefore, } x^2 - y^2 = 7 * 1 = 7$$

**Question 134**

In two similar triangles ABC and MNP, if  $AB = 2.25$  cm,  $MP = 4.5$  cm and  $PN = 7.5$  cm and  $m \angle ACB = m \angle MNP$  and  $m \angle ABC = m \angle MPN$ , then the length of side BC, in cm, is

A 4.5

B 3.75

C 4.75

D 3.5

Answer: B

**Explanation:**

As we can see, the 2 triangles are similar. Their sides are in the ratio 2:1 (MPN: ABC). Hence, BC will be  $7.5/2 = 3.75$  cm. Option B is the right answer.

**Question 135**

Given an equilateral  $\Delta ABC$ , D, E and F are the mid-points of AB, BC and AC respectively. Then the quadrilateral BEFD is exactly a :

- A rhombus
- B square
- C rectangle
- D trapezium

**Answer: A**

**Explanation:**

AS,  $\Delta ABC$  is equilateral and D, E and F are the mid-points of AB, BC and AC respectively.  $BE = DB$  and  $EF = DF$ . Since,  $\angle B = 60$ . It cannot be a square. So, it is a rhombus.

**Question 136**

If ABCD is a cyclic parallelogram, then the LA is

- A 100
- B 60
- C 80
- D 90

**Answer: D**

**Explanation:**

A cyclic parallelogram is a rectangle  
Here all the interior angles are 90 each.

**Question 137**

AC is a chord of circle whose centre is at O. If B is any point on the arc AC and  $\angle OCA = 20^\circ$ , then the magnitude of  $\angle ABC$  is

- A  $110^\circ$
- B  $100^\circ$
- C  $40^\circ$
- D  $140^\circ$

**Answer: A**

**Explanation:**

$OC = OA = \text{radius}$ . Hence, the angles opposite to these sides must also be equal.  
So,  $\angle OCA = 20 = \angle OAC$ . Hence,  $\angle AOC = 180 - 20 - 20 = 140$ .  
Now consider a point D on the major arc of AC and join D to A & C. This gives  $\Delta ADC$ .  
So,  $\angle AOC = 2 * \angle ADC$  So,  $\angle ADC = 140 / 2 = 70$   
Now, ADCB is a cyclic quadrilateral sum of whose opposite is 180.  
So,  $\angle D + \angle B = 180$ .  
 $\angle B = 180 - 70 = 110$ .

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### Question 138

The co-ordinates of the vertices of a right-angled triangle are P (3, 4), Q(7, 4) and R (3, 8), the right-angle being at P. The co-ordinates of the orthocentre of APQR are

- A (5,6)
- B (3,4)
- C (7,4)
- D (3,8)

Answer: B

#### Explanation:

Since it is a right angled triangle, the 2 sides adjacent to the right angle will be altitudes. The third altitude must meet at the vertex at which these 2 sides meet.

Hence, the vertex that contains the right angle is the orthocentre. From the points given, we can clearly see that (3,4) is the orthocentre. Option B is the right answer,

### Question 139

The value of  $(\sec \theta + \operatorname{cosec} \theta)$  when  $\theta = 45^\circ$ , is

- A  $5\sqrt{2}$
- B  $3\sqrt{2}$
- C  $4\sqrt{2}$
- D  $2\sqrt{2}$

Answer: D

#### Explanation:

We know that  $\sec A = 1/\cos A$  and  $\operatorname{cosec} A = 1/\sin A$ . When  $A = 45$  degrees, both these values will be equal to  $\sqrt{2}$  (Since  $\sin 45 = \cos 45 = 1/\sqrt{2}$ ).

Hence,  $\sec 45 + \operatorname{cosec} 45 = 2\sqrt{2}$ .

Option D is the right answer.

### Question 140

$\frac{\tan^2 \theta}{\sec \theta + 1} - \sec \theta$  is equal to

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

Answer: C

#### Explanation:

we need to find value of :  $\frac{\tan^2 \theta}{\sec \theta + 1} - \sec \theta$



we know ,  $1 + \tan^2\theta = \sec^2\theta$ ,

So

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

$$\sec\theta - 1 - \sec\theta$$

$$= -1$$

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**Question 141**

**A line graph**

- A shows trend over time
- B compares structures
- C makes comparisons
- D None of the above

**Answer: C**

**Explanation:**

A line graph is used to compare two variables. Thus, it is used for making comparisons.

Ans - (C)

**Question 142**

The heights of two similar right-angled triangles  $\triangle LMN$  and  $\triangle OPQ$  are 48 cm and 36 cm. If  $OP = 12$  cm, then  $LM$  is

- A  $\frac{10\sqrt{6}}{3}$
- B 16 cm
- C 20 cm
- D 12 cm

**Answer: B**

**Explanation:**

ratio of heights of two similar triangles is always equal to the ratio of the corresponding sides of the triangles

$$\text{i.e, } \frac{\text{height of } \triangle LMN}{\text{height of } \triangle OPQ} = \frac{\text{length of LM}}{\text{length of OP}}$$

put in values from the question

$$\frac{48}{36} = \frac{\text{length of LM}}{12}$$

$$\text{length of LM} = 16$$

**Question 143**

Which of the following graphical representations of data represents cumulative frequencies ?

- A Pie-chart
- B Histogram
- C Frequency polygon

D Ogive

Answer: D

**Explanation:**

The Cumulative frequency curve for a grouped frequency distribution is obtained by plotting the points and then joining them by a free-hand smooth curve.

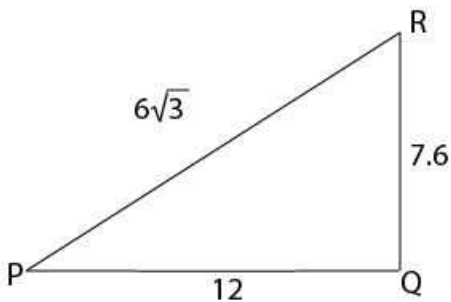
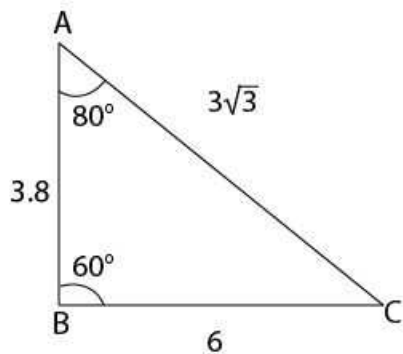
This is also known as **ogive**.

Ans - (D)

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### Question 144

In the given figures, the lengths of the sides of  $\triangle ABC$  and  $\triangle PQR$  are given and they are given in same units. Also  $\angle A$  and  $\angle B$  are given. Then value of  $\angle P$  is



A  $42^\circ$

B  $36^\circ$

C  $38^\circ$

D  $40^\circ$

Answer: D

**Explanation:**

as we can see that in the given triangles

$$\frac{AB}{RQ} = \frac{AC}{RP} = \frac{CB}{PQ} = \frac{1}{2}$$

We know that if ratio of corresponding sides are equal in two triangles, then the given triangles are similar and in similar triangles corresponding angles are also equal.

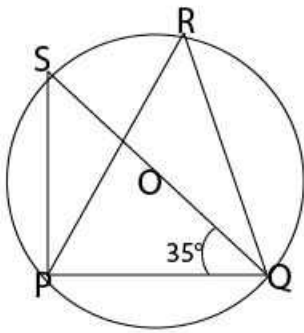
$$\text{So, } \angle A = \angle R, \angle C = \angle P, \angle B = \angle Q$$

$$\angle C = 180 - (80 + 60) = 40$$

So  $\angle P = 40$

**Question 145**

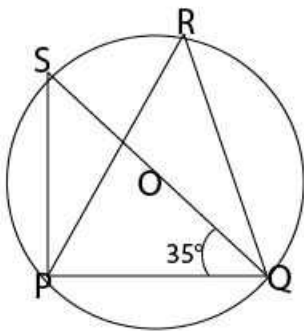
In the given figure, O is the centre. Then angle PSQ is equal to



- A  $60^\circ$
- B  $45^\circ$
- C  $55^\circ$
- D  $75^\circ$

Answer: C

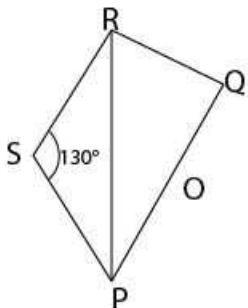
Explanation:



As O is the center then In triangle PQS angle QPS =  $90^\circ$   
and we know that sum of all 3 angles in a triangle =  $180^\circ$   
given that angle SQP =  $35^\circ$   
angle PSQ =  $180 - (90 + 35) = 55^\circ$

**Question 146**

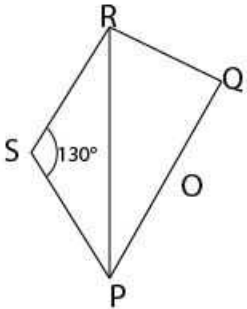
In the given figure, POQ is a diameter and PQRS is a cyclic quadrilateral. If  $\angle PSR = 130^\circ$ , then the value of  $\angle RPQ$  is



- A 30°
- B 40°
- C 45°
- D 35°

Answer: B

Explanation:



As we know that it is a cyclic quadrilateral, then all points P, Q, R, S are on circumference of circle

we know sum of opposite angles in cyclic quad. = 180

Hence,  $\angle P + \angle R = 180$

$\angle S + \angle Q = 180$

$\angle S = 130$ , so  $\angle Q = 50$

If PQ is a diameter, then  $\angle PRQ = 90$

Sum of angles in a triangle = 180

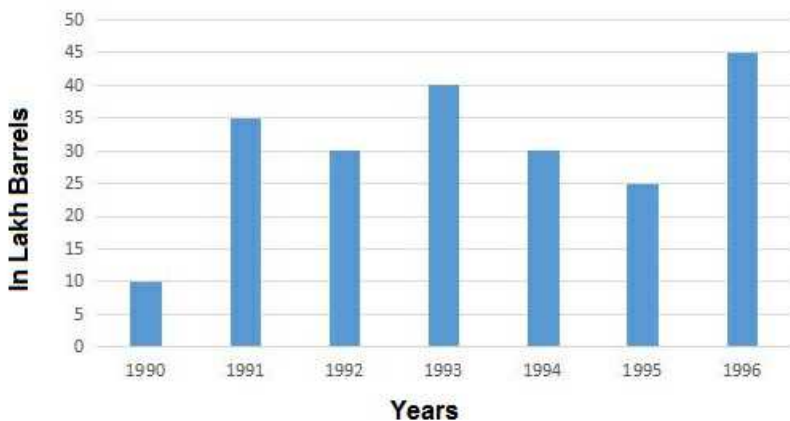
Hence  $\angle RPQ = 180 - (90 + 50) = 40$

## SSC CGL Free Mock Test

### Instructions

Study the following graph and answer the given questions.

Crude Oil Imports by India



### Question 147

From year 1995 to the year 1996, what was the percentage increase in imports of crude oil?

- A 60

- B 90
- C 180
- D None of these

**Answer: D**

**Explanation:**

Crude oil imports in 1995 = 25

Crude oil imports in 1996 = 45

$$\begin{aligned} \Rightarrow \% \text{ increase} &= \frac{45-25}{25} * 100 \\ &= \frac{20}{25} * 100 = 80\% \end{aligned}$$

Ans - (D)

**Question 148**

**From 1991 to 1992, what was the approximate percentage reduction in import of crude oil ?**

- A 14
- B 22
- C 18
- D 8

**Answer: A**

**Explanation:**

Crude oil imports in 1991 = 35

Crude oil imports in 1992 = 30

$$\begin{aligned} \Rightarrow \% \text{ decrease} &= \frac{35-30}{35} * 100 \\ &= \frac{5}{35} * 100 = 14.28\% \\ &= \sim 14\% \end{aligned}$$

**Question 149**

**In how many years were the imports higher than the average value of imports ?**

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

**Answer: D**

**Explanation:**

Crude oil imports by India in :

1990 = 10

1991 = 35

1992 = 30

1993 = 40

1994 = 30

1995 = 25

1996 = 45

Total imports =  $10+35+30+40+30+25+45 = 215$

=> Average imports over the years =  $215/7 = 30.71$

Thus, only in 3 years '1991', '1993' & '1996', the imports were higher than the average imports.

Ans - (D)

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### Question 150

If the rate of one barrel of crude oil was Rs. 25.60 in 1995, then what was the total value of imports (in Rs.) in that year ?

A 8.2 crores

B 64 crores

C 64 lalchs

D 6.4 crores

Answer: D

### Explanation:

Crude oil imported in 1995 = 25 lakh barrels

Rate of one barrel of crude oil in 1995 = Rs 25.60

=> Total value of imports = Rs  $(25 * 25.60)$  lakhs

= 640 lakhs = 6.4 crore

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### English

### Instructions

In the following questions, some of the sentences have errors and some have none. Find out which part of a sentence has an error. The number of that part is your answer. If there is no error, your answer is (d) i.e., No error.

### Question 151

The priest emphasised (a) / that it is the duty (b) / of all Christians to love each other (c)./ No error (d)

A The priest emphasised

B that it is the duty

C of all Christians to love each other

D No error

Answer: C

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**Question 152**

The pond is flooded (a) / with water because it is raining (b) / continuously for the last three days (c). / No error (d)

- A The pond is flooded
- B with water because it is raining
- C continuously for the last three days
- D No error

**Answer: B**

**Question 153**

Scaling the high wall, (a) / a vast expanse of greenery (b) / reaching up to the horizon was seen. (c) / No error (d)

- A Scaling the high wall,
- B a vast expanse of greenery
- C reaching up to the horizon was seen.
- D No error

**Answer: A**

**Question 154**

Any of the two (a) / roads leads / (b) to the station. (c) / No error (d)

- A Any of the two
- B roads leads
- C to the station
- D No error

**Answer: A**

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**Question 155**

This is the boy (a) / who I think had won (b) / the gold medal in the dance competition. (c) / No error (d)

- A This is the boy
- B who I think had won
- C the gold medal in the dance competition
- D No error

**Answer: D**

**Instructions**

In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

**Question 156**

The father was angry and cast..... his son.

- A down
- B about
- C off
- D of

**Answer: C**

**Question 157**

Indian masses are .....law abiding.

- A far and away
- B by and large
- C by far
- D by any means

**Answer: B**

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**Question 158**

The film we saw last night was boring. I wish I .....it.

- A shouldn't have seen
- B hadn't seen
- C didn't see
- D wouldn't have seen

**Answer: A**

**Question 159**

His old clothes and uncombed hair gave him a .....appearance,

- A disrespectful
- B disputatious
- C discontented
- D disreputable

**Answer: A**

**Question 160**

There are, as yet, no vegetation types or ecosystems whose study has been perfected to the extent that they no longer..... ecologists.



- A challenge
- B hinder
- C interest
- D require

Answer: C

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### Instructions

In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

### Question 161

#### Mollify

- A Contradict
- B Disseminate
- C Assuage
- D Persuade

Answer: C

### Question 162

#### Obstacle

- A Denouement
- B Progress
- C Hindrance
- D Cessation

Answer: C

### Question 163

#### Audacious

- A Industrious
- B Uncaring
- C Boisterous
- D Daring

Answer: D

## General Science Notes for SSC CGL

### Instructions

In the following questions, choose the word opposite in meaning to the given word.

**Question 164**

**Plummet**

- A Stagnate
- B Fall
- C Soar
- D Equate

**Answer: C**

**Question 165**

**Volatile**

- A Fresh
- B Stable
- C Angry
- D Favourable

**Answer: B**

**Question 166**

**Ebullient**

- A Spiritless
- B Soulless
- C Mindless
- D Heartless

**Answer: A**

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**Instructions**

In the following questions, four alternatives are given for the Idiom/ Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

**Question 167**

**He immediately set about organizing the department.**

- A looked around
- B took charge
- C started
- D took steps towards

**Answer: C**

**Question 168**

Those intending to take up the military service must be prepared to go through the hoop.

- A be made to pay heavy amounts of money
- B be punished severely
- C be made to undergo gruelling tests
- D be made to sign bonds

**Answer: C**

**Question 169**

He is playing ducks and drakes with the wealth of his father.

- A spending diligently
- B spending lavishly
- C spending foolishly
- D spending carefully

**Answer: C**

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**Question 170**

The Principal called the latecomers to her room and delivered a curtain lecture on the subject of late hours.

- A dramatic lecture
- B brief lecture
- C cautionary talk given in private
- D talk behind the curtain

**Answer: C**

**Question 171**

The project to clean the River Ganga ended in smoke.

- A yielded no practical result
- B yielded only confusion
- C yielded no profit
- D yielded no plan

**Answer: A**

**Instructions**

In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives to the bold sentence/part of the sentence at (a), (b) and (c) which may improve the sentence. Choose the correct alternative. In case no improvement is needed,

your answer is (d)

**Question 172**

**An early bird catches the worm.**

- A The early bird
- B A early bird
- C Early bird
- D No improvement

**Answer: A**

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**Question 173**

**As the tenant was in deficit with his rent we were forced to give him notice.**

- A behind
- B obligation
- C difficulties
- D No improvement

**Answer: B**

**Question 174**

**The engaged couple fell head over heels in love.**

- A over head his heels in love
- B on his heels over head in love
- C in love head over the heels
- D No improvement

**Answer: D**

**Question 175**

**Nightclubs are open far into night.**

- A into the night far
- B far into the night
- C into far night
- D No improvement

**Answer: B**

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**Question 176**

The Field Marshal knew that untrained troops were no good to him, he needed complete veterans.

- A seasoned
- B defiant
- C well-maintained
- D No improvement

**Answer: A**

**Question 177**

Once only did she give her way to emotions.

- A Only once did she give way to emotions.
- B Only once she did give way to her emotions.
- C Once only did she give way to her emotions.
- D No improvement

**Answer: B**

**Question 178**

I don't think Harsh will beat Mohit at chess. Mohit is one too much for him.

- A too much one
- B too many one
- C one too many
- D No improvement

**Answer: A**

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**Question 179**

Throughout history, both an-dent and modern, men were fond of waging war.

- A had been
- B have been
- C are
- D No improvement

**Answer: B**

**Question 180**

Since your departure, nothing has been transpired here worth your notice.

- A worthy of note has been transpired here. ,
- B worthy of note has transpired here.
- C worth your notice has transpired here.
- D No improvement

**Answer: B**

**Question 181**

**Who can prevent you from getting married now that you are within age ?**

- A in
- B of
- C on
- D No improvement

**Answer: B**

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**Instructions**

In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

**Question 182**

**A large number of bullets fired at the same time**

- A Fusillade
- B Rattle
- C Shoot
- D Archery

**Answer: A**

**Question 183**

**A tall, strong woman**

- A Siren
- B Amazon
- C Harridan
- D Shrew

**Answer: B**

**Question 184**

**A difficult problem**

- A Labyrinth
- B Maze
- C Conundrum
- D Puzzle

**Answer: C**

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**Question 185**

The policy of extending a country's empire and influence

- A Imperialism
- B Internationalism
- C Capitalism
- D Communism

**Answer: A**

**Question 186**

A person who studies the origin and history of words

- A Ethnologist
- B Polyglot
- C Grammarian
- D Etymologist

**Answer: D**

**Question 187**

A book which holds several works of one author

- A Anthology
- B Biography
- C Omnibus
- D Bibliotheque

**Answer: C**

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**Question 188**

One who deliberately damages other people's property

- A Arsonist
- B Destructor
- C Vandal
- D Vampire

**Answer: C**

**Instructions**

In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

**Question 189**

- A Irrisistable
- B Irresistible
- C Irresesteble
- D Irresistable

**Answer: B**

**Question 190**

- A Baroaque
- B Baroque
- C Baruque
- D Barokue

**Answer: B**

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**Instructions**

Read the passage carefully and choose the best answer to each question out of the four alternatives.

Bertrand Russell in *The Conquest of Happiness* has said that the sole reason of unhappiness finding refuge in the heart of man is the unhindered growth of "self-centred passions". These passions are more often materialistic. And in the pursuit of materialistic passions, man becomes alienated from the society. Failure in his pursuit often leads him to discontentment and dejection and he finds himself a misfit in this world. In the modern world, none is unaffected by stress. The stress to outdo the other in this mad rat race of consumerism often leads to depression.

Even children are not spared from this. They are supposed to fare better than their classmates in examinations and other co-curricular activities. So man, right from childhood, has to face the brunt of being born in this fast changing society. A section of the youth, unable to cope with the expectations of their loved ones, either end their lives or experiment with drugs, for seeking temporary mental relaxation provided by the initial intake, encourages people to indulge in them more often. The body then becomes totally dependent on drugs and cannot survive without the daily dose. With regular intake the amount required to produce the effect also increases. This physical and mental dependence on drugs is called drug addiction.

Drug addiction is a psychiatric, psychological and social problem. While persons of all ages and at all places are open to drug use the most susceptible among them are the youth. It has attained the proportions of almost an epidemic among the youth. It is mostly introduced to an unsuspecting person by his friends and is usually observed that once addicted to drugs, they initiate others to drugs. Some youngsters take to drugs because they are poked fun as if they do not use drugs. And some take drugs just to seek company or break boredom. In addition to these,



other factors that lead to drug addiction are – lack of parental care and supervision, lack of moral and religious education, media and pop culture, broken homes, hatred for any authority, etc. Seeking refuge in drugs relieves tensions, eases depressions and removes inhibitions, although the period of ecstasy is apparently short-lived.

**Question 191**

**Which of the following statements is true ?**

- A All youngsters take to drugs because they are mocked at if they do not use drugs.
- B Drug addiction is a problem restricted to the youth.
- C There is almost an epidemic of drug use among the youth.
- D All youngsters take drugs just to break boredom.

**Answer: C**

**Question 192**

**The cycle of drug addiction involves**

- A initiation, relaxation and de-addiction
- B initiation, rehabilitation and addiction
- C initiation, peer pressure and addiction
- D initiation, relaxation and addiction

**Answer: D**

**Question 193**

**The reason cited by Bertrand Russell for the unhappiness of man is**

- A Alienation from society
- B Failure in life
- C Materialistic self-centredness
- D Stress to outdo others

**Answer: C**

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**Question 194**

**The theme being developed by the writer is**

- A The Conquest of Happiness
- B Pressures of the modern world
- C Problems emerging out of materialism
- D Drug Addiction

**Answer: D**

**Question 195**

**What leads youth to drugs ?**

- A Inability to cope with the demands of the modern world
- B Rapid changes in the modern world
- C Undue competition of the modern world
- D (1), (2) and (3)

**Answer: D**

**Instructions**

Read the passage carefully and choose the best answer to each question out of the four alternatives.

A computer virus is a type of malware that, when executed, replicates by inserting copies of itself into other computer programs, data files, or the boot sector of the hard drive. However, not all viruses carry a destructive payload or attempt to hide themselves—the defining characteristic of viruses is that they are self-replicating computer programs which install themselves without the user's consent. Virus writers use social engineering and exploit detailed knowledge of security vulnerabilities to gain access to their host's computing resources. The vast majority of viruses (over 99%) target systems running Microsoft Windows employing a variety of mechanisms to infect new hosts, and often using complex anti-detection/stealth strategies to evade antivirus software. Motives for creating viruses can include seeking profit, desire to send a political message, personal amusement, to demonstrate that a vulnerability exists in software, for sabotage and denial of service, or simply because they wish to explore artificial life and evolutionary algorithms.

**Question 196**

**The vast majority of viruses evade antivirus softwares by**

- A inserting copies of itself into programs
- B targeting Microsoft Windows systems
- C using complex anti-detection/stealth strategies
- D exploiting detailed knowledge of security vulnerabilities

**Answer: C**

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**Question 197**

**What is one of the motives of creating viruses ?**

- A To sabotage and deny service
- B To gain access to classified files
- C To corrupt hard drives
- D To exploit security knowledge

**Answer: A**

**Question 198**

**What is the synonym of 'Vulnerability' in the passage ?**

- A susceptibility

- B liability
- C responsibility
- D accountability

**Answer: A**

**Question 199**

**What is the defining characteristic of a computer virus ?**

- A Its ability to execute programs
- B Its ability to affect the computer system
- C Its ability to hide itself
- D Its ability to self-replicate

**Answer: D**

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**Question 200**

**How do virus writers gain access to computing resources ?**

- A By executing malwares
- B By employing a variety of mechanisms
- C By using social engineering
- D By affecting computing networks

**Answer: C**

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