



## SSC CHSL 1 Feb 2017 Afternoon Shift

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# Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the related word/letters/number from the given alternatives.

Nephrology : Kidney :: Ichthyology : ?

- A Fish
- B Soil
- C Algae
- D Insects

Answer: A

### Explanation:

Nephrology is the branch of medicine that deals with the physiology and diseases of the kidneys, similarly Ichthyology is the branch of zoology that deals with *fishes*.

=> Ans - (A)

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### Question 2

Select the related word/letters/number from the given alternatives.

AGREE : FGPIB :: RULES : ?

- A TJGSU
- B TGJWS
- C TGJSU
- D THJUS

Answer: B

### Explanation:

Expression = AGREE : FGPIB :: RULES : ?

The pattern followed when we *reverse* the code is :

E	E	R	G	A
(+1)	(+2)	(-2)	(+2)	(+1)
F	G	P	I	B

Similarly, reverse of RULES :

S	E	L	U	R
(+1)	(+2)	(-2)	(+2)	(+1)
T	G	J	W	S

=> Ans - (B)

### Question 3

Select the related word/letters/number from the given alternatives.

MUMBAI: UMBMIA :: GURUGRAM : ?

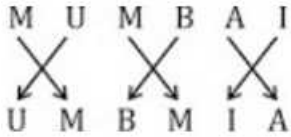
- A RUGUMARG
- B UGURRGMA
- C UGURGRMA
- D UGRURGAM

**Answer: B**

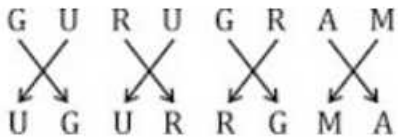
**Explanation:**

Expression = MUMBAI : UMBMIA :: GURUGRAM : ?

The pattern followed is :



Similarly, for GURUGRAM :



=> Ans - (B)

**Question 4**

Select the related word/letters/number from the given alternatives.

30 : 16 :: 24 : ?

- A 14
- B 13
- C 20
- D 25

**Answer: B**

**Explanation:**

Expression = 30 : 16 :: 24 : ?

The pattern followed is =  $x : \frac{x}{2} + 1$

Eg :- 30 :  $\frac{30}{2} + 1 = 30 : 16$

Similarly,  $\frac{24}{2} + 1 = 12 + 1 = 13$

=> Ans - (B)

## SSC CHSL Free Mock Test

**Question 5**

Select the odd word/letters/number/number pair from the given alternatives.

- A Dog
- B Cat

C Goat

D Lion

Answer: D

**Explanation:**

Except Lion others are domestic animal, hence lion is the odd one out.

=> Ans - (D)

**Question 6**

Select the odd word/letters/number/number pair from the given alternatives.

A E5T

B O9S

C U3A

D I7M

Answer: C

**Explanation:**

Except U3A, all have one vowel and one consonant, hence U3A is the odd one out.

=> Ans - (C)

**Question 7**

Select the odd word/letters/number/number pair from the given alternatives.

A 862

B 835

C 439

D 147

Answer: D

**Explanation:**

Apart from 147, sum of digits of other numbers is 16, hence 147 is the odd one out.

=> Ans - (D)

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**Question 8**

Select the odd word/letters/number/number pair from the given alternatives.

A 45

B 56

C 55

D 78

Answer: C

**Explanation:**

Apart from 55, difference between digits of other numbers is 1, hence 55 is the odd one out.

=> Ans - (C)

**Question 9**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. MHZ, NIW, OKT, PNQ, ?

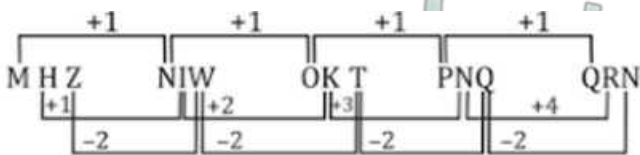
- A QNR
- B QRN
- C RNM
- D QNO

**Answer: B**

**Explanation:**

Expression : MHZ, NIW, OKT, PNQ, ?

The pattern followed is :



Thus, missing term = QRN

=> Ans - (B)

**Question 10**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. CFE, ILK, ORQ, ?

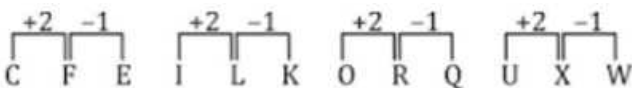
- A UXW
- B VYW
- C UYW
- D UXX

**Answer: A**

**Explanation:**

Expression : CFE, ILK, ORQ, ?

The pattern followed is :



Thus, missing term = UXW

=> Ans - (A)

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**Question 11**

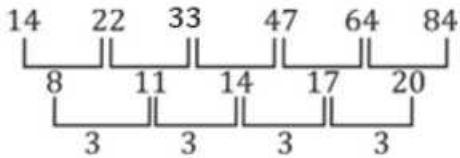
A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. 14, 22, 33, 47, 64, ?

- A 81
- B 84
- C 92
- D 94

**Answer: B**

**Explanation:**

The pattern followed is :



Thus, missing number = 84

=> Ans - (B)

**Question 12**

In the following question, two statements are given each followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

**Statement:**

- (I) Retail shops increasingly want to retain potential buyers.
- (II) 10 % of the customers are lost due to out of stock products.

**Conclusions:**

- (I) People don't find their sizes or specific color in stock and then they leave the store without any purchase.
- (II) Retailers want maximum footfall to get converted into purchases.

- A Only conclusion II follows
- B Conclusion I and II both follow
- C Neither I nor II follow
- D Only conclusion I follows

**Answer: B**

**Explanation:**

The given statements indicate that retail shops increasingly want to retain potential buyers, and they also lose their customers due to lack of products availability. The first conclusion is apt as it suggests why people leave the stores empty handed and vice-versa second conclusion is also true.

Thus, conclusion I and II both follow.

=> Ans - (B)

**Question 13**

A series is given with one term missing. Choose the correct alternative from the given ones that will complete the series. Morning, Afternoon, Evening, ?

- A Day
- B Week
- C Year

D Night

Answer: D

**Explanation:**

Time of day in chronological order.

= Morning -> Afternoon -> Evening -> Night

=> Ans - (D)

## SSC CGL Free Mock Test (Latest Pattern)

Question 14

A, B, C and X, Y, Z were sitting facing each other. A, B and C were facing south and X, Y and Z were facing north. X was left of Y but in front of A; Z was not at the left end and was not facing C. Who were at the left and right positions respectively?

A B and Y

B C and X

C B and Z

D X and A

Answer: D

**Explanation:**

A, B and C were facing south and X, Y and Z were facing north.

X was left of Y but in front of A. Z was not at the left end and was not facing C.

=> Z is sitting at right end and C is sitting in the middle. A is facing X.

Thus, arrangement :

A	C	B	↓
X	Y	Z	↑

∴ X and A were at the left and right positions respectively.

=> Ans - (D)

Question 15

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

i. Drama

ii. Dramatical

iii. Dramaticism

iv. Dramality

v. Dramatise

A i, iv, ii, iii, v

B i, iv, ii, v, iii

C i, iv, v, iii, ii

D iv, i, v, iii, ii

Answer: A

**Explanation:**

As per the order of dictionary :

= Drama -> Dramality -> Dramatical -> Dramaticism -> Dramatise

≡ i, iv, ii, iii, v

=> Ans - (A)

**Question 16**

In a certain code language "GASTRIC" is written as "UCIREKT". How will "DECEIVE" be written in that code language?

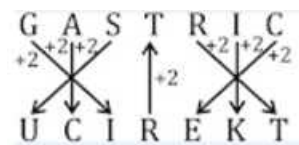
- A ACBCCTG
- B ACACCTG
- C EGFCGXK
- D BFCCTGL

**Answer: C**

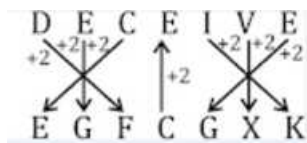
**Explanation:**

"GASTRIC" is written as "UCIREKT"

The pattern followed is :



Similarly, for DECEIVE :



=> Ans - (C)

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**Question 17**

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

9	8	5
6	6	7
3	?	3
5	7	4

- A 9
- B 4
- C 8
- D 2

**Answer: D**

**Explanation:**

The pattern followed for  $a, b, c$  and  $d$  in each column is :  $a = (c \times d) - b$

Eg :-  $(3 \times 5) - 6 = 15 - 6 = 9$

$(3 \times 4) - 7 = 12 - 7 = 5$

Similarly,  $(x \times 7) - 6 = 8$



$$\Rightarrow 7x = 8 + 6 = 14$$

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

$\Rightarrow$  Ans - (D)

#### Question 18

Which of the following interchanges in signs and numbers will make the given equation correct?

$$8 \times 6 + 4 = 52$$

A x and +, 8 and 52

B + and x, 6 and 4

C x and +, 8 and 4

D + and x, 6 and 8

**Answer:** C

#### Explanation:

Expression :  $8 \times 6 + 4 = 52$

(A) : x and +, 8 and 52

$$\equiv 52 + 6 \times 4 = 8$$

$$\text{L.H.S.} = 52 + 24 = 76 \neq \text{R.H.S.}$$

(B) : + and x, 6 and 4

$$\equiv 8 + 4 \times 6 = 52$$

$$\text{L.H.S.} = 8 + 24 = 32 \neq \text{R.H.S.}$$

(C) : x and +, 8 and 4

$$\equiv 4 + 6 \times 8 = 52$$

$$\text{L.H.S.} = 4 + 48 = 52 = \text{R.H.S.}$$

$\Rightarrow$  Ans - (C)

#### Question 19

In the following question, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

\_cca\_a\_ca\_ac\_ab

A abc bc

B abc bb

C ab bc

D ab cc b

**Answer:** A

#### Explanation:

The pattern followed is that in groups of 5, the term 'accab' is repeated.

$$= \text{accab accab accab}$$

$\Rightarrow$  Ans - (A)

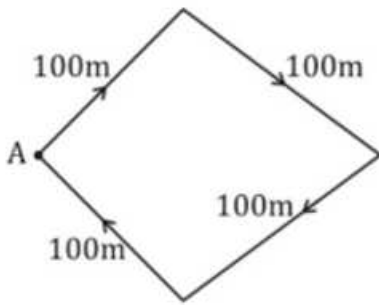
**Question 20**

From point A, Ram moves 100m in northeast direction, he again turns and moves 100m in southeast direction. He again turns and covers 100m southwest and finally covers 100m in northwest direction. In which direction is he now with respect to A?

- A West
- B Southwest
- C At point A
- D East

Answer: C

Explanation:



Ram starts from point A and moves 100 m in north-east direction, he again turns and moves 100 m in south-east direction. He again turns and covers 100 m towards south-west and finally covers 100 m in north-west direction.

Thus, he is finally at point A.

=> Ans - (C)

**Question 21**

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'K' can be represented by 10, 34 etc. and 'I' can be represented by 76, 88 etc. Similarly, you have to identify the set for the word 'LIGHT'.

Matrix -I

	0	1	2	3	4
0	T	M	L	K	G
1	K	L	G	T	M
2	L	T	M	G	K
3	M	G	T	L	K
4	G	K	M	T	L

Matrix -II

	5	6	7	8	9
5	F	R	I	A	H
6	I	A	F	H	R
7	R	I	H	F	A
8	A	H	R	I	F
9	H	F	A	R	I

- A 02, 65, 31, 58, 21
- B 20, 77, 12, 68, 13

C 44, 87, 40, 95, 32

D 33, 99, 04, 59, 43

Answer: D

Explanation:

(A) : 02, 65, 31, 58, 21 = LIGAT

(B) : 20, 77, 12, 68, 13 = LHGHT

(C) : 44, 87, 40, 95, 32 = LRGHT

(D) : 33, 99, 04, 59, 43 = LIGHT

=> Ans - (D)

Question 22

Pointing a man, Suraj says, "He is the son of the sister of my father's wife". How is that man related to Suraj?

A Father

B Brother

C Cousin

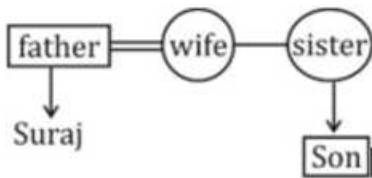
D Nephew

Answer: C

Explanation:

Sister of Suraj's father's wife = Suraj's aunt

Relation is :



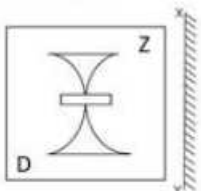
Thus, the man and Suraj are cousins.

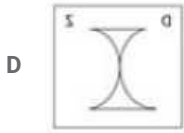
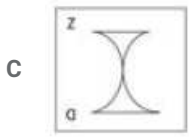
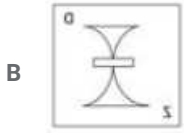
=> Ans - (C)

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Question 23

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





Answer: A

**Explanation:**

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

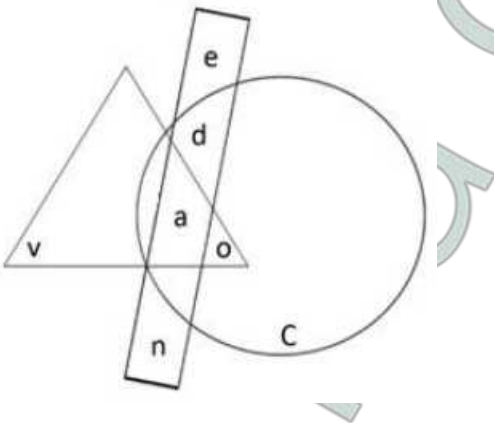
So the 'Z' at top right will be reversed and will now be at top left, thus the second and third options will be eliminated.

Also, 'D' will appear at bottom right, hence first option is the right image.

=> Ans - (A)

**Question 24**

Which of the following is a part of both circle and triangle?



A e

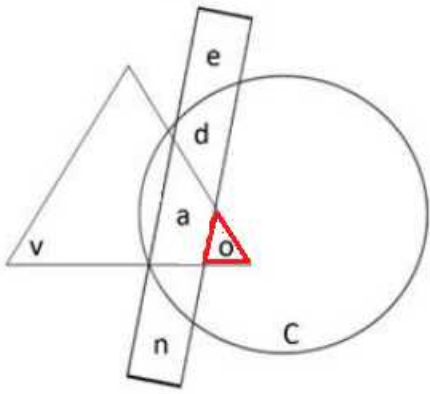
B v

C o

D c

Answer: C

**Explanation:**

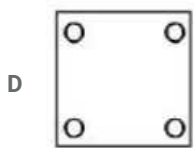
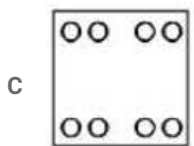
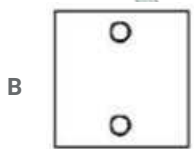
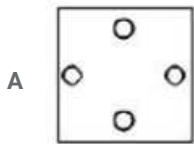
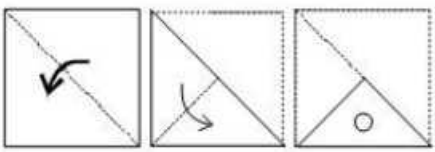


Part of both circle and triangle = o

=> Ans - (C)

**Question 25**

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



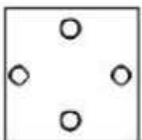
Answer: A

**Explanation:**

When the paper is unfolded first to the left, a circle will appear similarly on the left part of the paper.

When the paper is unfolded again, one circle each will appear on the top part and right part of the paper.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option A

## General Awareness

### Instructions

For the following questions answer them individually

### Question 26

Which of these is not a UNESCO World Heritage Site?

- A Ajanta Caves, Maharashtra
- B Red Fort, New Delhi
- C Victoria Memorial, Kolkata
- D Kaziranga Wildlife Sanctuary, Assam

Answer: C

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### Question 27

Highest Civilian Honour received by Amitabh Bachchan is .

- A Padma Shri
- B Padma Bhushan
- C Padma Vibhushan
- D Bharat Ratna

Answer: C

### Question 28

Which organ does detoxification and produces chemicals needed for digestion?

- A Salivary glands
- B Pancreas
- C Thyroid gland
- D Liver

Answer: D

### Question 29

$\text{NaHCO}_3$  is chemical formula for .

- A Borax
- B Vinegar
- C Lime
- D Baking soda

Answer: D

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Question 30

Which of the following elements has the lowest melting point?

- A Chromium
- B Hydrogen
- C Zinc
- D Silver

Answer: B

Question 31

C Programming language was developed by .

- A Charles Babbage
- B Larry Wall
- C James Gosling
- D Dennis Ritchie

Answer: D

Question 32

Which Indian Music Legend is the best known exponent of the instrument, Sitar?

- A Bhimsen Joshi
- B Ravi Shankar
- C Amjad Ali Khan
- D Alla Rakha

Answer: B

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Question 33

If demand curve for alphonso mangoes is  $D = 25000 - 70P$  and supply curve is  $S = 10000 + 80P$ , find the equilibrium quantity?

- A 18,000 units
- B 2,000 units
- C 1,800 units
- D 200 units

Answer: A

**Question 34**

**Match the characteristics with their market structure:**

- (a) Price > MC in both short and long run
- (b) Faces highly elastic demand

- A (a) Monopolistic competition, (b) Pure competition
- B (a) Pure Monopoly, (b) Monopolistic competition
- C (a) Pure competition, (b) Monopolistic competition
- D (a) Oligopoly, (b) Pure competition

**Answer: B**

**Question 35**

**Anamalai Tiger Reserve is in which state?**

- A Telangana
- B Madhya Pradesh
- C Tamil Nadu
- D Kerala

**Answer: C**

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**Question 36**

**Which is the most economical method of removing solid matter from water?**

- A Using deactivated carbon
- B Electrolysis
- C Distillation
- D Sedimentation

**Answer: D**

**Question 37**

**What is the Capital of Telangana State?**

- A Hyderabad
- B Secunderabad
- C Vijayanagara
- D Visakhapatnam

**Answer: A**



**Question 38**

**Birbal was an advisor in the court of?**

- A Babur
- B Akbar
- C Aurangzeb
- D Jahangir

**Answer: B**

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**Question 39**

**Humayun's Tomb is located in**

- A Delhi
- B Agra
- C Gwalior
- D Jaipur

**Answer: A**

**Question 40**

**Assembly line was invented by**

- A Alexander Parkes
- B Luigi Palmieri
- C Alexey Pajitnov
- D Ransom Eli Olds

**Answer: D**

**Question 41**

**Instrument for measuring blueness of the sky or ocean is called .**

- A Bathymeter
- B Ceraunograph
- C Cyanometer
- D Barometer

**Answer: C**

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**Question 42**

Farad is unit of .

- A Capacitance
- B Reactance
- C Electric charge
- D Electric conductance

**Answer: A**

**Question 43**

Under which Article is the Union Public Service Commission of India established?

- A Article 315
- B Article 250
- C Article 300
- D Article 52

**Answer: A**

**Question 44**

The Westminster parliamentary system was developed in .

- A Spain
- B Australia
- C UK
- D USA

**Answer: C**

**SSC CHSL Free Mock Test**

**Question 45**

Whose ear Mike Tyson bite in professional boxing match in 1997 for the WBA Heavyweight Championship?

- A James Douglas
- B Evander Holyfield
- C Riddick Bowe
- D Michael Moorer

**Answer: B**

**Question 46**

Who is the author of "India 2020: A Vision for the New Millennium"?

- A APJ Abdul Kalam
- B Shashi Tharoor
- C Narendra Modi
- D Arun Shourie

**Answer: A**

**Question 47**

**Psidium guajava is the scientific name of**

- A Guava
- B Mango
- C Bamboo
- D Jack fruit

**Answer: A**

**SSC CHSL Previous Papers (DOWNLOAD PDF)**

**Question 48**

**In which year, RBI was nationalized?**

- A 1939
- B 1949
- C 1959
- D 1969

**Answer: B**

**Question 49**

**Ottawa is the Capital City of .**

- A France
- B Norway
- C Canada
- D Greece

**Answer: C**

**Question 50**

**Which drug is used as a Blood Thinner?**

- A Warfarin
- B Tramadol

- C Azithromycin
- D Hydralazine

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Mathematics

#### Instructions

For the following questions answer them individually

#### Question 51

The value of  $x$  for which the expressions  $15 - 7x$  and  $15x + 7$  become equal is .

- A  $-4/11$
- B  $-11/4$
- C  $11/4$
- D  $4/11$

Answer: D

#### Explanation:

Expressions :  $15 - 7x$  and  $15x + 7$

$$\Rightarrow 15 - 7x = 15x + 7$$

$$\Rightarrow 15x + 7x = 15 - 7$$

$$\Rightarrow 22x = 8$$

$$\Rightarrow x = \frac{8}{22} = \frac{4}{11}$$

$\Rightarrow$  Ans - (D)

## SSC CGL Free Mock Test (Latest Pattern)

#### Question 52

The largest 5 digit number exactly divisible by 95 is

- A 99936
- B 99935
- C 99940
- D 99933

Answer: C

#### Explanation:

Largest 5 digit number = 99999

If 99999 is divided by 95,  $\Rightarrow 99999 = 95 \times 1052 + 59$

Quotient is 1052 and remainder is 59

Thus, largest 5 digit number which is divisible by 95 =  $99999 - 59$

= 99940

=> Ans - (C)

**Question 53**

If  $a:b = 3:8$ , find the value of  $(5a - 3b)/(2a + b)$ .

A 9/14

B 14/9

C -9/14

D -14/9

**Answer: C**

**Explanation:**

It is given that  $a : b = 3 : 8$

Let  $a = 3$  and  $b = 8$

To find :  $\frac{5a-3b}{2a+b}$

$$= \frac{(5 \times 3) - (3 \times 8)}{(2 \times 3) + (8)}$$

$$= \frac{(15 - 24)}{(6 + 8)} = \frac{-9}{14}$$

=> Ans - (C)

**Question 54**

If  $5 - 3x < 4 - x$  and  $5(2 - x) > 2 - 2x$ , then  $x$  can take which of the following values?

A 0

B -1

C 1

D 3

**Answer: C**

**Explanation:**

Expression 1 :  $5 - 3x < 4 - x$

$$\Rightarrow 3x - x > 5 - 4$$

$$\Rightarrow 2x > 1$$

$$\Rightarrow x > \frac{1}{2} \text{ -----(i)}$$

Expression 2 :  $5(2 - x) > 2 - 2x$

$$\Rightarrow 10 - 5x > 2 - 2x$$

$$\Rightarrow 5x - 2x < 10 - 2$$

$$\Rightarrow 3x < 8$$

$$\Rightarrow x < \frac{8}{3} \text{ -----(ii)}$$

Combining inequalities (i) and (ii), we get :  $\frac{1}{2} < x < \frac{8}{3}$

The only value that  $x$  can take among the given options = 1

=> Ans - (C)

## SSC CHSL Important Questions and Answers (Download PDF)

### Question 55

The average revenues of 9 consecutive years of a company is Rs 76 lakhs. If the average of first 5 years is Rs 71 lakhs and that of last 5 years is Rs 83 lakhs, find the revenue for the 5th year.

- A Rs 88 lakhs
- B Rs 84 lakhs
- C Rs 86 lakhs
- D Rs 82 lakhs

**Answer: C**

### Explanation:

Total revenues of 9 years of the company =  $76 \times 9 =$  Rs. 684 lakhs

Total revenue of first 5 years =  $71 \times 5 =$  Rs. 355 lakhs

Total revenue of last 5 years =  $83 \times 5 =$  Rs. 415 lakhs

$\therefore$  Revenue of 5th year =  $(355 + 415) - 684 = 770 - 684$

= Rs. 86 lakhs

=> Ans - (C)

### Question 56

If  $2x + 3y = 0$  and  $3x - 4y = 34$ , then  $x - y =$

- A 10
- B -10
- C 2
- D -2

**Answer: A**

### Explanation:

Equation 1 :  $2x + 3y = 0$

Multiplying by 3 on both sides, we get :  $6x + 9y = 0$  -----(iii)

Equation 2 :  $3x - 4y = 34$

Multiplying by 2 on both sides, =>  $6x - 8y = 68$  -----(iv)

Subtracting equation(iv) from (iii),

=>  $(6x - 6x) + (9y + 8y) = (0 - 68)$

=>  $17y = -68$

=>  $y = \frac{-68}{17} = -4$

Substituting it in equation (i), we get :  $2x + 3(-4) = 0$

=>  $2x = 12$

=>  $x = \frac{12}{2} = 6$

$\therefore (x - y) = 6 - (-4) = 6 + 4 = 10$

=> Ans - (A)

**Question 57**

5 hrs after a goods train passed a station, another train travelling at a speed of 70 km/hr following that goods train passed through that station. If after passing the station the train overtakes the goods train in 9 hours. What is the speed of the goods train?

- A 45 km/hr
- B 54 km/hr
- C 67.5 km/hr
- D 36 km/hr

**Answer: A**

**Explanation:**

Let the speed of goods train =  $x$  km/hr

Speed of another train = 70 km/hr

Distance between the two trains =  $70 \times 5 = 350$  km

The trains are moving in same direction, => Relative speed =  $(70 - x)$  km/hr

Time =  $5 + 9 = 14$  hours

=> speed = distance/time

$$\Rightarrow 70 - x = \frac{350}{14} = 25$$

$$\Rightarrow x = 70 - 25 = 45 \text{ km/hr}$$

=> Ans - (A)

**SSC CHSL Study Material**

**Question 58**

Marked price of an item is Rs 200. On purchase of 1 item discount is 22%, on purchase of 4 items discount is 33%. Rabia buys 5 items, what is the effective discount?

- A 35 percent
- B 30.8 percent
- C 34 percent
- D 20.4 percent

**Answer: B**

**Explanation:**

Marked price of item = Rs. 200

$$\text{Amount saved on buying 1 item} = \frac{22}{100} \times 200 = \text{Rs.}44$$

Marked price of 4 items =  $4 \times 200 = \text{Rs.} 800$

$$\text{Amount saved on buying 4 items} = \frac{33}{100} \times 800 = \text{Rs.}264$$

Thus, on buying 5 items, total amount saved =  $44 + 264 = \text{Rs.} 308$

Total marked price of 5 items =  $5 \times 200 = \text{Rs.} 1000$

$$\therefore \text{Effective discount} = \frac{308}{1000} \times 100$$

$$= \frac{308}{10} = 30.8\%$$

=> Ans - (B)

### Question 59

Find two numbers such that their mean proportion is 8 and third proportion is 64.

- A 4 and 8
- B 8 and 16
- C 8 and 8
- D 4 and 16

**Answer: D**

### Explanation:

Three numbers  $a, b, c$  are in proportion iff  $b^2 = ac$  where  $b$  is the mean proportion and  $c$  is the third proportion

Mean proportion of two numbers  $x$  and  $y = 8$

$$\Rightarrow xy = (8)^2 = 64 \text{ -----(i)}$$

Third proportion = 64

$$\Rightarrow y^2 = x \times 64 \text{ -----(ii)}$$

Substituting value of  $x$  from equation(i) in equation(ii), we get :

$$\Rightarrow y^2 = \frac{64}{y} \times 64$$

$$\Rightarrow y^3 = (2)^6 \times (2)^6 = (2)^{6+6}$$

$$\Rightarrow y = (2)^{\frac{12}{3}} = 2^4 = 16$$

Substituting it in equation(i),  $\Rightarrow x = \frac{64}{16} = 4$

=> Ans - (D)

### Question 60

Akash is 3 times as good a workman as Baldev and therefore is able to finish a job in 40 days less than Baldev. Working together, they can finish it in .

- A 15 days
- B 60 days
- C 20 days
- D 10 days

**Answer: A**

### Explanation:

Ratio of times taken by Akash and Baldev = 1 : 3

The time difference is  $(3 - 1) 2$  days while Baldev take 3 days and Akash takes 1 day.

If difference of time is 2 days, Baldev takes 3 days.

If difference of time is 40 days, Baldev takes =  $\frac{3}{2} \times 40 = 60$  days

So, Akash takes 20 days

$$\text{Akash's 1 day's work} = \frac{1}{20}$$

$$\text{Baldev's 1 day's work} = \frac{1}{60}$$



$$(\text{Akash} + \text{Baldev})\text{'s 1 day's work together} = \frac{1}{20} + \frac{1}{60} = \frac{4}{60} = \frac{1}{15}$$

∴ Akash and Baldev together can do the work in = 15 days

⇒ Ans - (A)

## SSC CHSL Free App

### Question 61

At what rate of compound interest per annum will a sum of Rs 20000 become Rs 23328 in 2 years?

- A 8 percent
- B 16 percent
- C 24 percent
- D 12 percent

Answer: A

#### Explanation:

Let rate of interest =  $r\%$  and time period = 2 years

Principal = Rs. 20,000 and Amount = Rs. 23,328

Amount after compound interest =  $P(1 + \frac{R}{100})^T$

$$\Rightarrow 20,000(1 + \frac{r}{100})^2 = 23328$$

$$\Rightarrow (1 + \frac{r}{100})^2 = \frac{23328}{20000} = 1.1664$$

$$\Rightarrow (1 + \frac{r}{100}) = \sqrt{1.1664} = 1.08$$

$$\Rightarrow \frac{r}{100} = 1.08 - 1 = 0.08$$

$$\Rightarrow r = 0.08 \times 100 = 8\%$$

⇒ Ans - (A)

### Question 62

ΔABC is similar to ΔPQR. Length of AB is 18 cm and length of the corresponding side PQ is 12 cm. If area of ΔABC is 324 sq cm, what is the area of ΔPQR?

- A 72 sq cm
- B 144 sq cm
- C 36 sq cm
- D 487.5 sq cm

Answer: B

#### Explanation:

It is given that  $\Delta ABC \sim \Delta PQR$

Also, length of AB = 18 cm and length of the corresponding side PQ = 12 cm

Let area of ΔPQR =  $x$  sq cm

$$\Rightarrow \text{Ratio of Area of } \Delta ABC : \text{Area of } \Delta PQR = \text{Ratio of square of corresponding sides} = (AB)^2 : (PQ)^2$$

$$\Rightarrow \frac{324}{x} = \frac{(18)^2}{(12)^2}$$

$$\Rightarrow x = (12)^2 = 144 \text{ sq cm}$$

$\Rightarrow$  Ans - (B)

### Question 63

What is the slope of the line perpendicular to the line passing through the points (8,2) and (3,1)?

- A -5
- B  $3/5$
- C  $5/3$
- D  $1/5$

Answer: A

#### Explanation:

Slope of line passing through  $(x_1, y_1)$  and  $(x_2, y_2)$  is  $\frac{y_2 - y_1}{x_2 - x_1}$

$$\Rightarrow \text{Slope of line passing through } (3,1) \text{ and } (8,2) = \frac{2-1}{8-3} = \frac{1}{5}$$

Let slope of line perpendicular to it =  $m$

Also, product of slopes of two perpendicular lines = -1

$$\Rightarrow m \times \frac{1}{5} = -1$$

$$\Rightarrow m = -5$$

$\Rightarrow$  Ans - (A)

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### Question 64

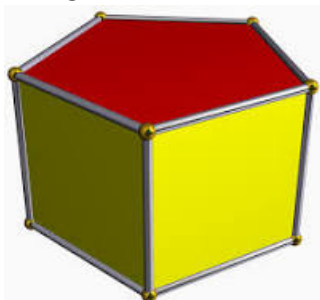
A pentagonal prism has 15 edges. How many vertices does it have?

- A 12
- B 10
- C 15
- D 20

Answer: B

#### Explanation:

Pentagonal Prism :



Euler's formula :  $V + F - E = 2$  where V is number of vertices , F is number of faces and E is number of edges.

Pentagonal Prism has 15 edges and 7 faces.

$$\Rightarrow V = 2 + E - F = 2 + 15 - 7$$

$$\Rightarrow V = 17 - 7 = 10$$

$\Rightarrow$  Ans - (B)

**Question 65**

The diameter of a circle is equal to the side of the square. What is the area of the square if the area of the circle is  $49\pi$  sq cm?

- A 196 sq cm
- B 154 sq cm
- C 124 sq cm
- D 98 sq cm

**Answer:** A

**Explanation:**

Let radius of circle =  $r$  cm

$$\text{Area of circle} = \pi r^2 = 49\pi$$

$$\Rightarrow r^2 = 49$$

$$\Rightarrow r = \sqrt{49} = 7 \text{ cm}$$

Thus, diameter of circle = Side of square =  $2 \times 7 = 14$  cm

$$\therefore \text{Area of square} = (14)^2 = 196 \text{ cm}^2$$

$\Rightarrow$  Ans - (A)

**Question 66**

The radius of a hemisphere is 7 cm, find its volume?

- A 718.67 cubic cm
- B 1437.34 cubic cm
- C 239.56 cubic cm
- D 359.34 cubic cm

**Answer:** A

**Explanation:**

Radius of hemisphere = 7 cm

$$\text{Volume of hemisphere} = \frac{2}{3} \pi r^3$$

$$= \frac{2}{3} \times \frac{22}{7} \times (7)^3$$

$$= \frac{2}{3} \times 22 \times 49 = \frac{2156}{3}$$

$$= 718.67 \text{ cm}^3$$

$\Rightarrow$  Ans - (A)

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**Question 67**

29 is 0.8% of?

- A 3625

- B 1450
- C 7250
- D 10875

Answer: A

**Explanation:**

Let the number be  $x$

According to ques, 0.8% of  $x = 29$

$$\Rightarrow \frac{0.8}{100} \times x = 29$$

$$\Rightarrow \frac{x}{125} = 29$$

$$\Rightarrow x = 29 \times 125 = 3625$$

$\Rightarrow$  Ans - (A)

**Question 68**

If  $\sin 5\pi/3 = x$ , then the value of  $x$  is

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

Answer: B

**Explanation:**

Expression :  $\sin 5\pi/3 = x$

$$= \sin(2\pi - \frac{\pi}{3})$$

$$= -\sin(\frac{\pi}{3}) = \frac{-\sqrt{3}}{2}$$

$\Rightarrow$  Ans - (B)

**Question 69**

If  $(\tan A + \tan B)/(1 - \tan A \tan B) = x$ , then the value of  $x$  is

- A  $\tan(A + B)$
- B  $\tan(A - B)$
- C  $\cot(A + B)$
- D  $\cot(A - B)$

Answer: A

**Explanation:**

Expression :  $(\tan A + \tan B)/(1 - \tan A \tan B) = x$

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

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

$$= \left[ \frac{\sin(A+B)}{\cos A \cos B} \right] \div \left[ \frac{\cos(A+B)}{\cos A \cos B} \right]$$

$$= \frac{\sin(A+B)}{\cos A \cos B} \times \frac{\cos A \cos B}{\cos(A+B)}$$

$$= \frac{\sin(A+B)}{\cos(A+B)} = \tan(A+B)$$

=> Ans - (A)

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### Question 70

If  $1/(\operatorname{cosec}A + \cot A) = x$ , then the value of x is

- A  $\operatorname{cosec}A + \cot A$
- B  $\operatorname{cosec}A - \cot A$
- C  $\operatorname{cosec}^2 A + \cot 2A$
- D  $\sqrt{\operatorname{cosec}^2 A + \cot 2A}$

**Answer: B**

#### Explanation:

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

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

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

Multiplying both numerator and denominator by  $(1 - \cos A)$

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

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

$$= \frac{1 - \cos A}{\sin A} = \frac{1}{\sin A} - \frac{\cos A}{\sin A}$$

$$= \operatorname{cosec}A - \cot A$$

=> Ans - (B)

### Question 71

A vendor buys oranges at the rate of 5 for Rs 6 and sells at the rate of 2 for Rs 3. What will be the result?

- A 25 percent loss
- B 25 percent gain
- C 20 percent gain
- D 20 percent loss

**Answer: B**

#### Explanation:

The vendor buys 5 oranges for Rs. 6

$$\Rightarrow \text{Cost price of 1 orange} = \frac{6}{5} = \text{Rs } 1.2$$

He sells 2 oranges for Rs. 3

$$\Rightarrow \text{Selling price of 1 orange} = \frac{3}{2} = \text{Rs } 1.5$$

∴ Selling price is more than Cost price, the vendor earns a profit

$$\Rightarrow \text{Profit \%} = \frac{(1.5-1.2)}{1.2} \times 100$$

$$= \frac{1}{4} \times 100 = 25\%$$

⇒ Ans - (B)

### Question 72

Refer the below data table and the following question.

	Boys	Girls
Medical	20	45
Engineering	90	25

What percent students who choose Engineering are girls

A 13.89

B 21.74

C 35.71

D 27.78

Answer: B

#### Explanation:

Number of girls who chose engineering = 25

Total number of engineers = 90 + 25 = 115

$$\Rightarrow \text{Percent of the girls who choose engineering} = \frac{25}{115} \times 100$$

$$= \frac{500}{23} \approx 21.74\%$$

⇒ Ans - (B)

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### Question 73

Refer the below data table and answer the following question

	Cumulative production
January	300
February	500
March	1080
April	1630
May	2030
June	2320

How many car were manufactured in the months of April and May ?

A 690

B 1130

C 3660

D 950

Answer: D

#### Explanation:

Number of cars produced in :

January = 300

February = 500 - 300 = 200

March = 1080 - 500 = 580

April = 1630 - 1080 = 550

May = 2030 - 1630 = 400

June = 2320 - 2030 = 290

=> Number of cars that were manufactured in the month of the April and may = 550 + 400 = 950

=> Ans - (D)

#### Question 74

Refer the below data table and answer the following question

Day of the week	Distance jogged (km)
Monday	3.5
Tuesday	3
Wednesday	2.5
Thursday	5
Friday	2.5
Saturday	2
Sunday	4.5

If 400 calories are burned by jogging 5km, how many calories were burnt in the given week?

A 1890 calories

B 1840 calories

C 1790 calories

D 1740 calories

Answer: B

#### Explanation:

Total distance jogged in entire week

$$= 3.5 + 3 + 2.5 + 5 + 2.5 + 2 + 4.5 = 23 \text{ km}$$

Calories burned after jogging 5 km = 400 calories

$$\Rightarrow \text{Calories burned after jogging 23 km} = \frac{400}{5} \times 23$$

$$= 80 \times 23 = 1840 \text{ calories}$$

=> Ans - (B)

#### Question 75

Refer the below data table and answer the following question

Items	Yearly Expense In Lakhs
Raw Materials	6
Labour	3
Rent	5
Interest	6
Taxes	3

Rent and Taxes are what percent of total expenses ?

A 27.53 percent

B 34.78 percent

C 20.28 percent

D 42.03 percent

**Answer: B**

**Explanation:**

Yearly experience in Rent and Taxes (in Lakhs) = 5 + 3 = 8

Total expenses (in Lakhs) = 6 + 3 + 5 + 6 + 3 = 23

=> Required % =  $\frac{8}{23} \times 100$

=  $\frac{800}{23} = 34.78\%$

=> Ans - (B)

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## English

**Instructions**

For the following questions answer them individually

**Question 76**

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. To rummage about in a place or container in search of something.

A to rake

B to excavate

C to ferret

D to poke

**Answer: C**

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**Question 77**

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. to buy a lemon

A to purchase a vehicle that constantly gives problems

B buying only half the recipe will not help you prepare the full dish

C to purchase an insignificant thing which eventually becomes very useful

D to buy stuff which you don't need

**Answer: A**

**Question 78**

Select the antonym of mere

A unadorned

B immense



C sheer

D blunt

Answer: B

Question 79

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

The population of Mumbai(A)/is greater than(B)/in any city in USA.(C)/No error(D)

A A

B B

C C

D D

Answer: C

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Question 80

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

The bank-----his house as he had failed to pay the instalments despite repeated warnings.

A mobbed

B confiscated

C hijacked

D captured

Answer: B

Question 81

Rearrange the parts of the sentence in correct order:

At one level,

Pthe law in understanding Qsuch cases of violence Rone senses the limits of

A RQP

B PQR

C RPQ

D QRP

Answer: C

Question 82

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

For a full week(A)/she enjoyed the benefits(B)/ of being a big sister.(C)/No error(D)

A A

B B

C C

D D

Answer: D

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Question 83

Select the synonym of to ordain

A to anoint

B to retract

C to veto

D to void

Answer: A

Question 84

Select the synonym of to stranded

A to douse

B to aground

C to swamp

D to inundate

Answer: B

Question 85

Improve the bracketed part of the sentence.

All the allegations levelled (over) the poor watchman were found to be baseless.

A upon

B off

C against

D no improvement

Answer: C

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**Question 86**

Rearrange the parts of the sentence in correct order.

It is the right to

Pwho see us at our most vulnerable Qthe indiscretions of doctors Rprivacy that protects us from

- A QRP
- B QPR
- C PRQ
- D RQP

**Answer: D**

**Question 87**

Select the antonym of to comprise

- A to dispute
- B to embody
- C to span
- D to encompass

**Answer: A**

**Question 88**

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. to cast iron stomach

- A a very greedy person
- B to be able to eat or drink anything without any problems
- C to be indifferent to harsh words
- D to face so many difficulties in life that one now becomes immune to even poison

**Answer: B**

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**Question 89**

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

The event manager is making all the reservations.

- A All the reservations would be made by the event manager.
- B All the reservations are being made by the event manager.
- C All the reservations would have been made by the event manager.
- D All the reservations will have been made by the event manager.

**Answer: B**

**Question 90**

Improve the bracketed part of the sentence.

"I am the only man in the world who (can) paint a picture so true to life," he said.

- A will
- B could
- C may
- D no improvement

**Answer: D**

**Question 91**

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

To sell (stocks or other securities or commodities) in advance of acquiring them, with the aim of making a profit when the price falls.

- A bilking
- B duping
- C conning
- D shorting

**Answer: D**

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**Question 92**

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

'Do you have anything to say on behalf of the accused?' said the judge finally.

- A The judge finally asked that if he had anything to say on behalf of the accused.
- B The judge finally ask that whether he had anything to say on behalf of the accused.
- C The judge finally asked that if he has anything to say on behalf of the accused.
- D The judge finally asked that if he has had anything to say on behalf of the accused.

**Answer: B**

**Question 93**

Select the word with the correct spelling.

- A amphybia
- B indanted
- C ancumber
- D levelled

**Answer: D**

**Question 94**

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

A large crowd-----to get a glimpse of their favourite star.

- A gathered
- B rallied
- C clustered
- D compiled

**Answer: A**

## SSC CHSL Important Questions and Answers (Download PDF)

**Question 95**

Select the word with the correct spelling.

- A tidlers
- B thistlees
- C pulchritude
- D tenderred

**Answer: C**

**Instructions**

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

In a strange ----(1)---- the production and the consumption of the event become cause for concern.-----(2)-----wonders whether newer forms of "noncaring" or violence are appearing. Somehow, silence, even ----(3)----, quietly suppresses a meditation on such events.-----(4)-----a professor, I can recollect the number of occasions when my students have cried as we discussed such events in class.-----(5)----- society seems so indifferent.

**Question 96**

1

- A way
- B form
- C step
- D method

**Answer: A**

**Question 97**

2

- A Anyone
- B One

- C Someone
- D Somebody

Answer: B

## SSC CHSL Study Material

Question 98

3

- A attention
- B bias
- C regard
- D indifference

Answer: D

Question 99

4

- A Like
- B Alike
- C As
- D Being

Answer: C

Question 100

5

- A Yet
- B Thus
- C Hence
- D So

Answer: A

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