



## SSC CHSL 1 November 2015 Morning Shift

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## Reasoning

### Instructions

In the following Nine Questions, find out the odd words/ number/ number pair from the given alternatives.

### Question 1

Find out the odd number pair.

- A (24, 96)
- B (54, 216)
- C (61, 244)
- D (27, 135)

**Answer:** D

### Explanation:

Every second number in the pair is the product of the first number and 4 except in (27, 135)

$$24 \times 4 = 96$$

$$54 \times 4 = 216$$

$$61 \times 4 = 244$$

$$27 \times 4 = 108$$

∴ (27, 135) is the odd number pair among the given number pairs

Hence, the correct answer is Option D

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### Question 2

Find out the odd letters,

- A STUA
- B RQPA
- C HGFA
- D MLKA

**Answer:** A

### Explanation:

The fourth letter of all letter clusters is A

The first three letters of all the letter clusters are in reverse alphabetical order except in STUA

∴ STUA is the odd one among the given letter clusters

Hence, the correct answer is Option A

### Question 3

Find our the odd word.

- A RIN
- B HAMAM

C CINTHOL

D PEARS

**Answer: A**

**Explanation:**

HAMAM, CINTHOL, PEARS are used for body while RIN is used to wash clothes

∴ RIN is the odd word

Hence, the correct answer is Option A

**Question 4**

**Find out the odd letters.**

A RFD

B PET

C TIW

D CAP

**Answer: A**

**Explanation:**

In PET, TIW, CAP, the middle letter is a vowel whereas in RFD, the middle letter is not vowel.

∴ RFD is the odd one among the given letter-cluster.

Hence, the correct answer is Option A

## SSC CHSL Free Mock Test

**Question 5**

**Find out the odd pair.**

A Crayon-Chart

B Brush-Paint

C Pen-Ink

D Pencil-Lead

**Answer: A**

**Explanation:**

Brush is used with the help Paint, Pen is used with the help of Ink, Pencil is used with the help of Lead but Crayon is not used with the help of Chart. Crayon is used on the Chart.

∴ Crayon-Chart is the odd pair among the given word pairs.

Hence, the correct answer is Option A

**Question 6**

**Find out the odd word.**

A Crane

B Kingfisher

C Humming bird

D Sparrow

Answer: A

**Explanation:**

Kingfisher, Humming bird, Sparrow are small sized birds whereas Crane is a long sized bird.

∴ Crane is the odd one among the given words.

Hence, the correct answer is Option A

**Question 7**

**Find out the odd letters.**

A IMQU

B WZCF

C ADGJ

D LORU

Answer: A

**Explanation:**

The number of letters between letters of the letter clusters are 2 except for IMQU

The number of letters between letters of IMQU are 3

∴ IMQU is the odd one among the given letter clusters

Hence, the correct answer is Option A

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 8**

**Find out the odd number pair.**

A 34-43

B 57-75

C 12-21

D 15-41

Answer: D

**Explanation:**

The second number is formed by interchanging the units digit and tens digit of the first number except in 15-41

∴ 15-41 is the odd one among the given numbers

Hence, the correct answer is Option D

**Question 9**

**Find out the odd number.**

A 742956

B 876321

C 564327

D 368127

Answer: A

**Explanation:**

876321, 564327, 368127 are odd numbers

742956 is a even number

∴ 742956 is the odd one among the given numbers

Hence, the correct answer is Option A

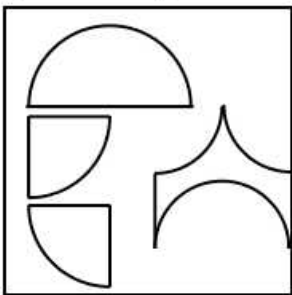
**Instructions**

For the following questions answer them individually

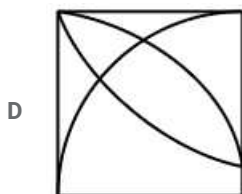
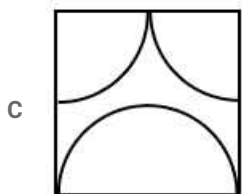
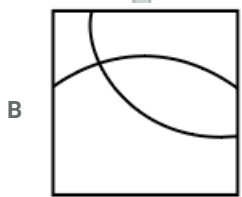
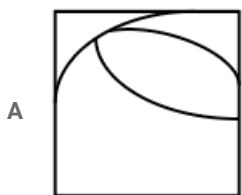
**Question 10**

Identify the answer figure from which pieces given in the question figure have been cut.

**Question figure:**

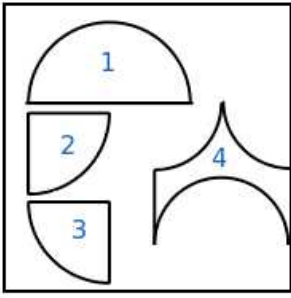


**Answer Figures:**

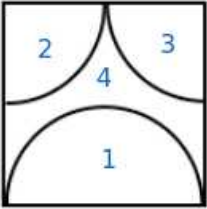


Answer: C

**Explanation:**



The pieces shown in the above figure are cut from the figure shown below



Hence, the correct answer is Option C

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Instructions

In the following Nine question, select the related word/letters/number from the given alternatives.

### Question 11

CEIM:DGLQ::FGIO: ?

- A GMSI
- B GMIS
- C GLIS
- D GILS

Answer: D

### Explanation:

$C + 1 = D$

$E + 2 = G$

$I + 3 = L$

$M + 4 = Q$

Similarly,

$F + 1 = G$

$G + 2 = I$

$I + 3 = L$

$O + 4 = S$

∴ FGIO is related to GILS in the same way CEIM is related to DGLQ

Hence, the correct answer is Option D

### Question 12

Governor: State:: President:?

- A Organization
- B Country
- C Constituency
- D District

**Answer: B**

**Explanation:**

There will be a governor for a state similarly there will be a president for the country.

∴ President is related to country in the same way governor is related to a state.

Hence, the correct answer is Option B

**Question 13**

**Heart: Cardiologist::Brain:?**

- A Ophthalmologist
- B Neurologist
- C Gynecologist
- D Nephrologist

**Answer: B**

**Explanation:**

Cardiologist studies about the heart and its functions whereas Neurologist studies about the brain and its function.

∴ Brain is related to Neurologist in the same way Cardiologist is related to heart

Hence, the correct answer is Option B

## SSC CGL Free Mock Test (Latest Pattern)

**Question 14**

**GFEH : RQPS :: LKJM : ?**

- A VUWX
- B ONMP
- C LKNM
- D IHJG

**Answer: B**

**Explanation:**

The logic here is

G opposite is R

The first letter of 2nd letter cluster is opposite letter of first letter of 1st letter cluster. Similarly, The first letter of 4th letter cluster should be opposite letter of first letter of 3rd letter cluster.

L opposite is O

⇒ First letter of 4th letter cluster is O

The pattern of letters within letter clusters are

$$G - 1 = F$$

$$F - 1 = E$$

$$E + 3 = H$$

Also,

$$R - 1 = Q$$

$$Q - 1 = P$$

$$P + 3 = S$$

Using the same logic for 4th letter cluster

$$O - 1 = N$$

$$N - 1 = M$$

$$M + 3 = P$$

The fourth letter cluster is ONMP

∴ ONMP is related to LKJM in the same RQPS is related to GFEH.

Hence, the correct answer is Option B

#### Question 15

17:102::23:?

A 112

B 216

C 138

D 413

**Answer:** C

#### Explanation:

Second number is the multiplication of first number and 6

$$17 \times 6 = 102$$

Similarly,

$$23 \times 6 = 138$$

∴ The required answer is 138

Hence, the correct answer is Option C

#### Question 16

235: 587::435: ?

A 789

B 989

C 988

D 788

**Answer:** A

#### Explanation:

The logic here is

First digit of second number (5) = Sum of first and second digit of first number (2 + 3)



Second digit of second number (8) = Sum of second and third digit of first number (3 + 5)

Third digit of second number (7) = Sum of first and third digit of first number (2 + 5)

Similarly, the number related to 435 is 789

Hence, the correct answer is Option A

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

### Question 17

Car: Garage:: ? : Hangar

- A Bus
- B Aeroplane
- C Truck
- D Train

**Answer: B**

#### Explanation:

A place where car is kept in the home is called Garage.

A large place where aeroplane is kept is called Hangar.

∴ Aeroplane is related to Hangar in the same way Car is related to Garage

Hence, the correct answer is Option B

### Question 18

HIJK:GFED::NOPQ:?

- A FDEC
- B MLKJ
- C BCED
- D EFGH

**Answer: B**

#### Explanation:

H - 1 = G

I - 3 = F

J - 5 = E

K - 7 = D

Similarly,

N - 1 = M

O - 3 = L

P - 5 = K

Q - 7 = J

∴ The required answer is MLKJ

Hence, the correct answer is Option B

Question 19

4:36::?:45

- A 6
- B 5
- C 7
- D 8

Answer: B

Explanation:

4:36::?:45

$$\Rightarrow 4/36 = ?/45$$

$$\Rightarrow ? = 5$$

## SSC CHSL Study Material

Question 20

If PNLJ:2468, then QOKL:?

- A 1367
- B 1376
- C 3591
- D 1276

Answer: B

Explanation:

From PNLJ:2468, the logic is

The numbering is assigned in the reverse alphabetical order starting from Q as shown below

Q = 1, P = 2, O = 3, N = 4, M = 5, L = 6, K = 7

∴ QOKL is related to 1376

Hence, the correct answer is Option B

Instructions

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

Question 21

\_zy\_zxy\_yxzx\_zyx\_xy

- A yzxyx
- B yxzyz
- C xzyzy
- D zxyzy

Answer: B

Explanation:

By Trial and Error method,

Option A

yz~~z~~zx | yxy~~z~~xz | yzy~~xx~~ | y

The above letters do not form a series. Hence option A is incorrect.

Option B

zy~~z~~xz | zy~~z~~xz | zy~~z~~xz | y

The above letters form a series.

Hence, the correct answer is Option B

### Question 22

**b\_ac\_cc\_cb\_ab\_ac**

A bbaac

B cbaba

C abbbc

D aabba

**Answer: D**

### Explanation:

By Trial and Error method,

Option A

b~~b~~ac | ~~b~~cca | cb~~a~~a | b~~c~~ac

The above letters do not form a series. Hence option A is incorrect.

Option B

b~~c~~ac | ~~b~~cca | cb~~b~~a | b~~a~~ac

The above letters do not form a series. Hence option B is incorrect.

Option C

b~~a~~ac | ~~b~~ccb | cb~~b~~a | b~~c~~ac

The above letters do not form a series. Hence option C is incorrect.

Option D

b~~a~~ac | ~~a~~ccb | cb~~b~~a | b~~a~~ac

The above letters form a series.

Hence, the correct answer is Option D

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### Instructions

For the following questions answer them individually

### Question 23

Select the set of symbols which can be fitted correctly in the question.

5\_3\_8\_4\_2 = 21

A  $\times, +, -, \div$

B  $+, \times, -, \div$

C  $+, \times, +, \div$

D  $-, \times, +, \div$

**Answer: A**

**Explanation:**

By trail and error method,

Option A

$$5 \times 3 + 8 - 4 \div 2 = 21$$

$$5 \times 3 + 8 - 2 = 21$$

$$15 + 8 - 2 = 21$$

$$21 = 21$$

Hence, the correct answer is Option A

**Question 24**

**A watch reads 4:30. If the minute hand points East in which direction will the hour hand point?**

A North-East

B North

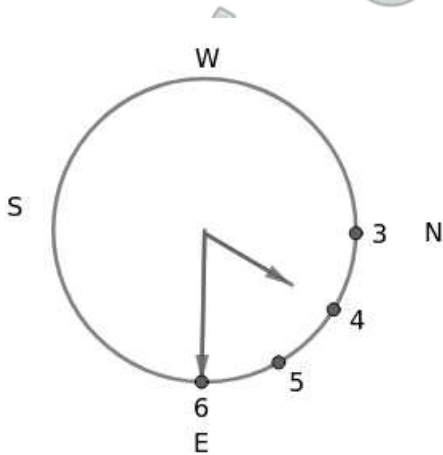
C South-West

D south

**Answer: A**

**Explanation:**

According to the question, the given information is represented as shown below



$\therefore$  The hour hand is pointing towards North-East

Hence, the correct answer is Option A

**Instructions**

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

**Question 25**

3	21	7
4	?	3
2	16	8

- A 1
- B 10
- C 5
- D 12

**Answer:** D

**Explanation:**

Along the rows,

$$21 \div 3 = 7$$

$$16 \div 2 = 8$$

The logic here is third number is the division of first and second number

Similarly,

$$? \div 4 = 3$$

$$\Rightarrow ? = 12$$

∴ The required number is 12

Hence, the correct answer is Option D

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**Question 26**

8	13	10
7	12	9
10	15	?

- A 12
- B 5
- C 8
- D 19

**Answer:** A

**Explanation:**

Along the columns,

$$\frac{8+7}{2} + 2.5 = 7.5 + 2.5 = 10$$

$$\frac{13+12}{2} + 2.5 = 12.5 + 2.5 = 15$$

The logic here is third number is the sum of average of first two numbers and 2.5

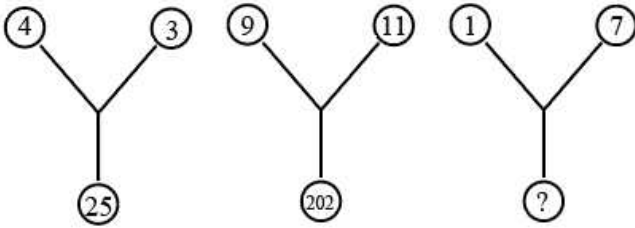
Similarly,

$$\frac{10+9}{2} + 2.5 = 9.5 + 2.5 = 12$$

∴ The required number is 12

Hence, the correct answer is Option A

Question 27



- A 75
- B 50
- C 100
- D 25

Answer: B

Explanation:

$$4^2 + 3^2 = 16 + 9 = 25$$

$$9^2 + 11^2 = 81 + 121 = 202$$

The logic here is, the below number is the sum of the squares of the above numbers

Let the required number be a

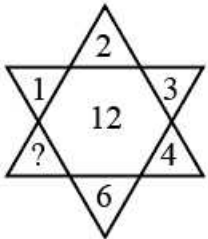
Similarly,

$$a = 1^2 + 7^2 = 1 + 49 = 50$$

∴ The required number is 50

Hence, the correct answer is Option B

Question 28



- A 1
- B 12
- C 8
- D 6

Answer: B

Explanation:

The numbers at the edges of star are factors of 12

The factors of 12 are 1,2,3,4,6,12

∴ The remaining and the required number is 12

Hence, the correct answer is Option B

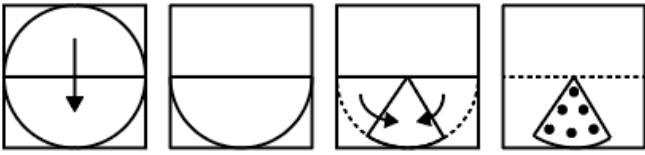
**Instructions**

For the following questions answer them individually

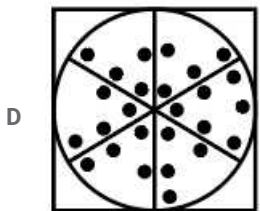
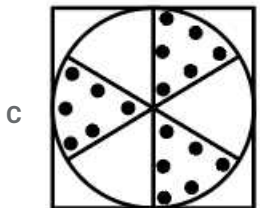
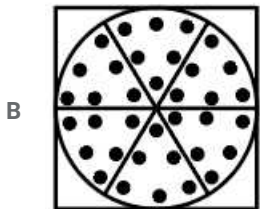
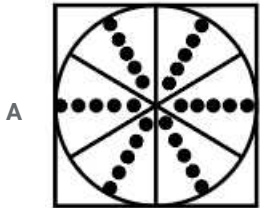
**Question 29**

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.

**Question figures:**



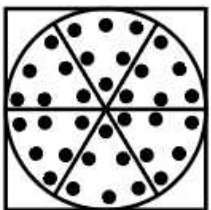
**Answer Figures:**



**Answer: B**

**Explanation:**

When the paper is unfolded, the six circular sector will have same pattern of cutting. The six dots will appear similarly on the six circular sectors as shown below



Hence, the correct answer is Option B

**Question 30**

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., M can be represented by 01, 10 etc., and A can be represented by 56, 65 etc. Similarly, you have to identify the set for the word ROD.

**Matrix-I**

	0	1	2	3	4
0	I	M	W	S	Q
1	M	W	S	Q	I
2	W	S	Q	I	M
3	S	Q	I	M	W
4	Q	I	M	W	A

**Matrix-II**

	5	6	7	8	9
5	O	A	D	R	N
6	A	D	R	N	O
7	D	R	N	O	A
8	R	N	O	A	D
9	N	O	A	D	R

- A 67, 96, 57
- B 56, 66, 86
- C 58, 66, 78
- D 58, 69, 65

**Answer:** A

**Explanation:**

From the given matrices,

R can be represented as 58, 67, 76, 85, 99

O can be represented as 55, 69, 78, 87, 96

D can be represented as 57, 66, 75, 89, 98

From the given options, ROD can be represented as 67, 96, 57

Hence, the correct answer is Option A

**Question 31**

Find out the incorrect term in the series.

2, 5, 10, 3, 6, 18, 4, 7, 30

- A 6
- B 7
- C 30
- D 10

**Answer:** C

**Explanation:**

The given series is a combination three alternate series of

2, 3, 4

5, 6, 7

10, 18, 30

In the series 10, 18, 30

$$10 + 8 = 18$$

$$18 + 8 = 26$$

26 should be in the place of 30



∴ 30 is the wrong number in the given series.

Hence, the correct answer is Option C

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### Instructions

In the following Three questions, arrange the following words as per order in the dictionary.

### Question 32

1. Plate 2. Plane 3. Plaster 4. Plasma 5. Plastic

A 2, 1, 5, 3, 4

B 2, 4, 3, 5, 1

C 1, 2, 3, 4, 5

D 2, 5, 3, 4, 1

Answer: B

### Explanation:

First three letter of all the words are same so verifying the fourth letter.

The fourth letter of plane is 'n' which comes before 's' and 't' in alphabetical order, so Plane will be the first word in order and Plate will be the last in order.

Plasma will be the second in order since fifth letter 'm' comes before 't' in alphabetical order.

From Plaster and Plastic, Plaster is placed before Plastic since the sixth letter of Plastic i.e, 'e' comes before 'i' in alphabetical order.

∴ The order of the givens words according to English dictionary is Plane, Plasma, Plaster, Plastic, Plate

Hence, the correct answer is Option B

### Question 33

1. Smoulder 2. Smother 3. Smuggle 4. Smudge

A 1, 2, 3, 4

B 4, 3, 2, 1

C 2, 1, 4, 3

D 1, 4, 3, 2

Answer: C

### Explanation:

First two letters of all the words are same so verifying the third letter.

The third letter of Smoulder and Smother is 'o' which is before 'u' in alphabetical order. So Smoulder and Smother placed before Smuggle and Smudge.

Among Smoulder and Smother, the fourth letter of Smother is before Smoulder in alphabetical order. So Smother is placed first and Smoulder is placed second.

Among Smuggle and Smudge, the fourth letter of Smudge is before Smuggle in alphabetical order. So Smudge is placed third and Smuggle is placed fourth.

∴ The order of the givens words according to English dictionary is Smother, Smoulder, Smudge, Smuggle

Hence, the correct answer is Option C

**Question 34**

1. Intervention 2. Intertwine 3. Interview 4. Intervene

A 2, 3, 4, 1

B 2, 4, 1, 3

C 3, 4, 1, 2

D 4, 3, 2, 1

**Answer: B**

**Explanation:**

First 5 letters of all the words are same so verifying the sixth letter.

The sixth letter of Intertwine is 't' which comes first in alphabetical order. So Intertwine is placed first.

The first 6 letters for remaining words are same so verifying the seventh letter. The seventh letter of Interview is 'i' which comes after 'e'. So Interview is placed last.

Among Intervention and Intervene, the ninth letter of Intervene comes before 't' in alphabetical order. So Intervene is placed second and Intervention is placed third.

∴ The order of the given words is Intertwine, Intervene, Intervention, Interview

Hence, the correct answer is Option B

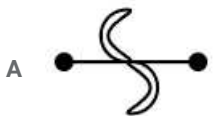
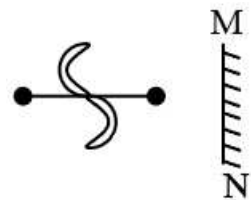
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**Instructions**

For the following questions answer them individually

**Question 35**

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



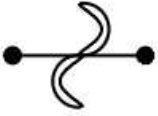
**Answer: C**

**Explanation:**

When a mirror is placed on the line MN,

The facing of the figure to the left and right direction changes to opposite direction in mirror image(right facing changes to left and vice versa). There won't be change in shape of the mirror image.

∴ The mirror image of the given figure is



Hence, the correct answer is Option C

**Instructions**

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

**Question 36**

1, 5, 13, 25, 41, 61, ?

- A 85
- B 81
- C 91
- D 77

**Answer: A**

**Explanation:**

Given series is 1, 5, 13, 25, 41, 61, ?

$$5 - 1 = 4$$

$$13 - 5 = 8$$

$$25 - 13 = 12$$

$$41 - 25 = 16$$

$$61 - 41 = 20$$

The difference between consecutive numbers is multiple of 4

⇒ The next difference is 24

∴ Required number =  $61 + 24 = 85$

Hence, the correct answer is Option A

**Question 37**

1, 16, 81, 256, 625, ?

- A 1296
- B 4163
- C 1225
- D 2225

**Answer: A**

**Explanation:**

1, 16, 81, 256, 625

$1^4, 2^4, 3^4, 4^4, 5^4$

∴ The next number in the series =  $6^4 = 1296$

Hence, the correct answer is Option A

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**Question 38**

**EZ FY XG ?**

**A** WH

**B** GW

**C** WG

**D** HW

**Answer: A**

**Explanation:**

In the given series,

$E + 1 = F \rightarrow F + 1 = G \rightarrow G + 1 = H$

$Z - 1 = Y \rightarrow Y - 1 = X \rightarrow X - 1 = W$

Also, the letters are exchanging after every two terms of the series.

∴ The next term in the series is WH.

Hence, the correct answer is Option A

**Instructions**

In the following Two questions, unscramble the letters to form a meaningful word. Then find out the correct numerical position of the letters.

**Question 39**

**H N R C A B**

**1 2 3 4 5 6**

**A** 635241

**B** 653412

**C** 415623

**D** 356412

**Answer: A**

**Explanation:**

The meaningful word that can be formed with the letters H, N, R, C, A, B is BRANCH

∴ The correct numerical position of the letters is 635241

Hence, the correct answer is Option A

**Question 40**

**N I T I F E I N**

**2 4 5 4 3 6 4 2**

**A** 32535246

B 32435246

C 24324256

D 42342456

**Answer:** D

**Explanation:**

The meaningful word that can be formed with the letters N, I, T, I, F, E, I, N is INFINITE

∴ The correct numerical position of the letters is 42342456

Hence, the correct answer is Option D

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**Instructions**

For the following questions answer them individually

**Question 41**

Raghu jogged 2 km southwards, then he turned right and walked 5 km. He again turned right and walked and jogged 8 km. In which direction was he seen moving last?

A East

B South

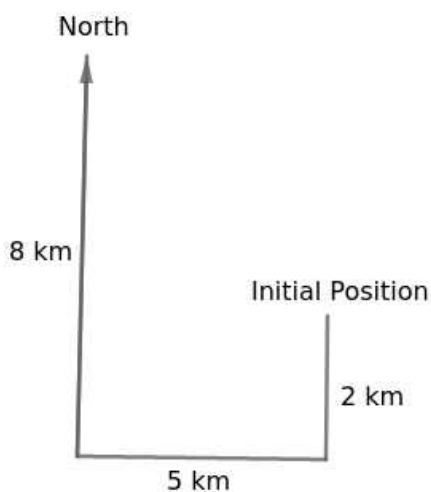
C North

D West

**Answer:** C

**Explanation:**

The given directions is represented in the figure below



∴ He was moving in North direction at last

Hence, the correct answer is Option C

**Question 42**

Five students are standing one behind the other in the playground facing the instructor. Malini is behind Anjana, but in front of Gayathri. Meena is in front of Shena, but behind Gayathri. What is the position of Meena?

- A Second from last
- B Extreme first
- C Second from first
- D Extreme last

**Answer:** A

**Explanation:**

Given,

Five students are standing one behind the other in the playground facing the instructor

Malini is behind Anjana, but in front of Gayathri. They are arranged as shown below

**Anjana**

**Malini**

**Gayathri**

Meena is in front of Shena, but behind Gayathri. They are arranged as shown below

**Gayathri**

**Meena**

**Shena**

∴ The final arrangement is

**Anjana**

**Malini**

**Gayathri**

**Meena**

**Shena**

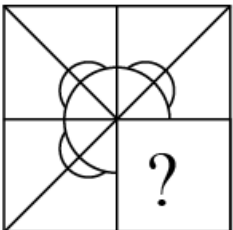
∴ The position of Meena is Second from last

Hence, the correct answer is Option A

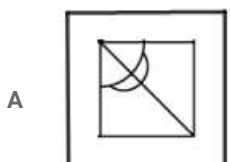
**Question 43**

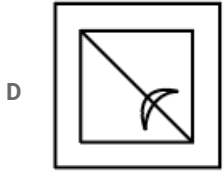
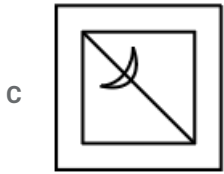
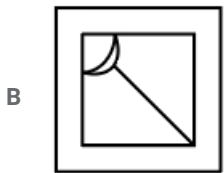
Which answer figure will complete the pattern in the question figure?

Question Figure:



Answer Figures:



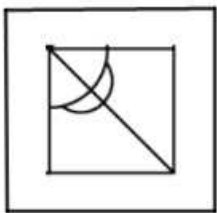


Answer: A

**Explanation:**

The figure which completes the question figure is similar to the remaining three parts of the question figure.

∴ The figure will complete the pattern in the question figure is



Hence, the correct answer is Option A

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**Question 44**

Four positions of a dice are given below:



Find the number on the face opposite to the face showing 4.

A 5

B 3

C 6

D 1

Answer: A

**Explanation:**

From the first position of dice, 5 is not opposite to 1 and 6

From the third position of dice, 5 is not opposite to 2 and 3

⇒ 5 is opposite to the remaining number 4

∴ 5 is the number on the face opposite to the face showing 4

Hence, the correct answer is Option A

#### Question 45

In the question, two statements are given followed by two conclusions I and II. You have to consider the two 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, follow from the given statements.

Statements I: Creative persons are learned people.

Some doctors are creative persons.

Conclusions I: Some creative persons are learned people.

II. Some learned people are doctors.

A I

B II

C I & II

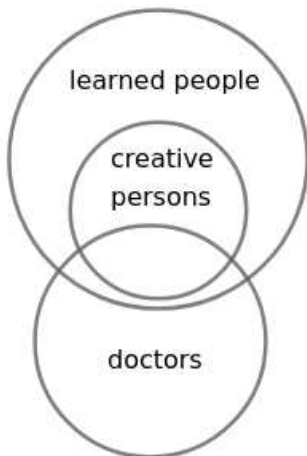
D Neither I nor II

Answer: C

#### Explanation:

Creative persons are learned people means all creative persons are learned people.

The basic diagram for the given statements is



I. Some creative persons are learned people

Since all creative persons are learned people, some creative persons are learned people is also true. Hence conclusion I follows.

II. Some learned people are doctors

From the basic diagram, some learned people are doctors. Hence conclusion II follows.

∴ Both conclusion I and II follows the given statements

Hence, the correct answer is Option C

#### Question 46

In 5 years, ₹ 5,000 amounts to ₹ to 9,000. In what time at the same rate will ₹ 600 amounts to ₹ 900?

A 6 years

B 3 years

C 5 years

D 2 years



**Answer: B**

**Explanation:**

Given, Amount (A) = ₹ 9,000

Principal amount (P) = ₹ 5,000

Time (T) = 5 years

$$\Rightarrow 9000 = 5000 + \frac{5000 \times 5 \times R}{100}$$

$$\Rightarrow 4000 = 250R$$

$$\Rightarrow R = 16\%$$

When Amount (A) = ₹ 900

Principal (P) = ₹ 600

Rate (R) = 16%

Time = T

$$\Rightarrow 900 = 600 + \frac{600 \times T \times 16}{100}$$

$$\Rightarrow 300 = 96T$$

$$\Rightarrow T = 3.125 \text{ years} = 3 \text{ years (approximately)}$$

Hence, the correct answer is Option B

## SSC CHSL Free Mock Test

**Question 47**

If a means +, b means  $\times$ , c means  $\div$ , d means  $-$ , then  $20a10b45c5d12 = ?$

A 98

B 74

C 68

D 88

**Answer: A**

**Explanation:**

According to the problem,

$$20a10b45c5d12 = 20 + 10 \times 45 \div 5 - 12$$

$$= 20 + 10 \times 9 - 12$$

$$= 20 + 90 - 12$$

$$= 110 - 12$$

$$= 98$$

Hence, the correct answer is Option A

**Question 48**

If in a certain code ONE is coded as 231, FIVE is coded as 9641, then how will be NINE coded?

A 3631

B 3613

C 3316

D 3361

**Answer: A**

**Explanation:**

Given, ONE is coded as 231 and FIVE is coded as 9641

O = 2

N = 3

E = 1

F = 9

I = 6

V = 4

∴ NINE is coded as 3631

Hence, the correct answer is Option A

**Question 49**

In the question, two statements are given. You have to answer considering the statements to be true, even if they seem to be at variance from commonly known facts.

**Statements I: Plants grow from seeds.**

**II: Seeds are produced by flowers.**

**Conclusion:**

A Flowers and seeds are produced by plants.

B Plants grow from flowers.

C Seeds are produced by plants.

D Flowers are produced by plants.

**Answer: B**

**Explanation:**

Given, Plants grow from seeds and seeds are produced by flowers. So Plants grow from flowers.

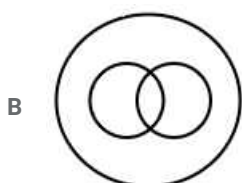
Hence, the correct answer is Option B

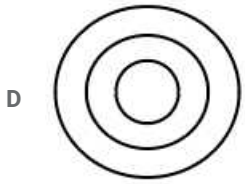
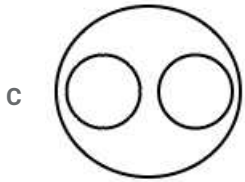
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**Question 50**

Identify the diagram that best represents the relationship among classes given below:

Library, Books, Racks



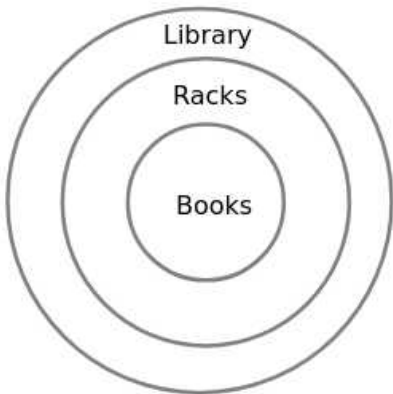


Answer: D

**Explanation:**

Books are placed in Racks in the Library.

∴ The diagram that best represents the relationship between them is



Hence, the correct answer is Option D

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**English**

**Instructions**

In the following Two Questions, a sentence has been given in Direct/Indirect Speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/ Direct Speech and mark your answer in the Answer-Sheet.

**Question 51**

The maid confessed to the police that it was she who had taken the diamond ring.

- A The police were told, "I have taken the diamond ring."
- B The maid said, "I have stolen the diamond ring."
- C The maid said, "It is I who took the diamond ring."
- D The maid told the police, "It is I who have taken the diamond ring."

Answer: D

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**Question 52**

My father said to me, "Go now".

- A My father ordered me to go then.
- B My father ordered me to go now.
- C My father ordered me to go later.
- D My father ordered to go now.

**Answer: A**

**Instructions**

In the following Ten Questions given below in the following passage, Some of the words have been left out. Read the passage carefully and choose the correct answer to each question out of the four alternatives and fill in the blanks by blackening the appropriate circle [•] in the Answer Sheet.

Did the Earth always (i) as it does today? No, (ii) its origin about 4.8 billion years ago, our planet has (iii) a lot of changes. The initial ball of fire (iv) down and the surface slowly (v) solid. Today we (vi) that the Earth's crust is divided (vii) several plates, (viii) move continuously. Entire continents (ix) been displaced and mountains, islands (x) new seas have been formed or have disappeared.

**Question 53**

(v)

- A turn
- B turned
- C has turned
- D turning

**Answer: B**

**Question 54**

(iv)

- A cooled
- B cooling
- C cools
- D cool

**Answer: A**

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**Question 55**

(ix)

- A has
- B had
- C are
- D have

**Answer: D**

**Question 56**

(iii)

- A undergo
- B undergoes
- C underwent
- D undergone

**Answer: D**

**Question 57**

(x)

- A but
- B and
- C or
- D so

**Answer: B**

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**Question 58**

(i)

- A looking
- B looks
- C looked
- D look

**Answer: C**

**Question 59**

(vi)

- A have known
- B had knows
- C know
- D knew

**Answer: C**

**Question 60**

(viii)

- A which
- B who
- C whom
- D whose

Answer: A

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### Question 61

(vii)

- A to
- B on
- C in
- D into

Answer: D

### Question 62

(ii)

- A from
- B before
- C after
- D since

Answer: D

### Instructions

In the following Four Questions, out of the four alternatives, choose the one which best expresses the meaning of the given word and mark it in the Answer-Sheet.

### Question 63

#### Luxuriant

- A Class
- B Lush
- C Lovely
- D Luxurious

Answer: B

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**Question 64**

**Languid**

- A Lively
- B Luxurious
- C Spirited
- D Lethargic

**Answer: D**

**Question 65**

**Despair**

- A Hopeless
- B Distress
- C Disrupt
- D Discourage

**Answer: A**

**Question 66**

**Malady**

- A Melody
- B Parody
- C Disease
- D Lady

**Answer: C**

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**Instructions**

In the following Four 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 and indicate it by blackening the appropriate circle [•] in the Answer Sheet.

**Question 67**

The doctor \_\_\_\_\_ the woman that her son would recover.

- A assured
- B assumed
- C insured
- D ensured

**Answer: A**

**Question 68**

I have no \_\_\_ riches.

- A desirous of
- B desire to
- C desire for
- D desire of

**Answer: C**

**Question 69**

He is only an \_\_\_ director in the organization but he does his work sincerely.

- A honorary
- B honorific
- C honour
- D honourable

**Answer: A**

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**Question 70**

A warm reception was \_\_\_ him.

- A accorded to
- B allied to
- C allotted to
- D given for

**Answer: A**

**Instructions**

In the following Four Questions, a sentence/a part of the sentence is underlined. Below are given alternatives to the underlined part which may improve the sentence. Choose the correct alternative. In case no improvement is needed blacken the circle [•] corresponding to "No improvement" in the Answer Sheet.

**Question 71**

He summarily dismissed what his son told him in a fit of rage.

- A No improvement
- B In a fit of rage he summarily dismissed what his son told him.
- C What his son told in a fit of rage he summarily dismissed.
- D He summarily dismissed in a fit of rage what his son told him.

**Answer: B**



Question 72

There were times in his life when he struggled for one square meal a day.

- A No improvement
- B he keeps struggling for meals.
- C he struggled one day for food.
- D he struggled with one square meal a day.

Answer: A

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Question 73

Each and everyone of you are guilty of some crime or the other.

- A Everyone are guilty
- B Each and everyone of you is guilty
- C No improvement
- D Each and each of you are guilty

Answer: B

Question 74

Let you and I go together.

- A No improvement
- B me
- C mine
- D my

Answer: B

Instructions

In the following Four Questions, out of the four alternatives, choose the one which can be substituted for the given words/sentences and indicate it by blackening the appropriate circle [•] in the Answer Sheet.

Question 75

A place where arms and weapons are stored.

- A tannery
- B kiln
- C arsenal
- D granary

Answer: C

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### Question 76

One who sells articles at public sales.

- A juggler
- B teller
- C milliner
- D auctioneer

Answer: D

### Question 77

A partner in crime

- A assistant
- B helper
- C accomplice
- D alibi

Answer: C

### Question 78

A general act of forgiveness or pardon.

- A gratification
- B amnesty
- C emancipation
- D benediction

Answer: B

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### Instructions

In the following Four Questions, choose the word opposite in meaning to the given word and mark it in the Answer-Sheet.

### Question 79

Cautious

- A Careless
- B Thoughtful
- C Watchful
- D Alert

Answer: A

Question 80

Mammoth

- A Stupendous
- B Minute
- C Monumental
- D Prodigious

Answer: B

Question 81

Dubious

- A Easy
- B Assured
- C Double
- D Demise

Answer: B

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Question 82

Abhor

- A Love
- B Hate
- C Miss
- D Mad

Answer: A

Instructions

In the following Four Questions, the 1st and last part of a sentence are numbered 1 and 6. The rest of the sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the sentence and find out which of the four combinations is correct. Then find the correct answer and indicate it in the Answer Sheet.

Question 83

A social network is

P. provides a clear way of analyzing

Q. a set of actors and the

R. a social structure made up of

S. dyadic ties between these actors

6. The structure of whole social entities.

- A QSPR

- B SPRQ
- C PQRS
- D RQSP

Answer: D

**Question 84**

Some people seem to imagine  
P. and that when you have filled it with anything  
Q. and it becomes as empty  
R. that the human mind is like a bottle  
S. you pour it out again  
6. As it was before

- A RPSQ
- B PRSQ
- C RSPQ
- D PQRS

Answer: A

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**Question 85**

England's Cath Webb  
P. with her resolution  
Q. to make a sponge cake every day for a year  
R. hit the headlines in January  
S. and give it to a friend, family member or stranger  
6. Just to make them smile.

- A SPRQ
- B SRQP
- C RPQS
- D RSQP

Answer: C

**Question 86**

The pilgrimage to Mecca  
P. giving alms  
Q. recognizing Allah as the only God  
R. is one of the five religious duties of each Muslim  
S. along with praying five times a day  
6. And fasting four weeks once a year

- A SPQR
- B SQRP

C RPQS

D RSQP

**Answer: D**

**Instructions**

In the following Four Questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word and mark your answer in the Answer Sheet.

**Question 87**

**Find the correctly spelt word:**

A Bouganvella

B Bougainvilla

C Bougainvillea

D Bougenvillea

**Answer: C**

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**Question 88**

**Find the correctly spelt word:**

A Courtious

B Courtoeus

C Courteous

D Courteus

**Answer: C**

**Question 89**

**Find the correctly spelt word:**

A Occurrence

B Occurrance

C Ocurrance

D Occurance

**Answer: A**

**Question 90**

**Find the correctly spelt word:**

A Diminutive

B Diminuitive

- C Diminutiv
- D Dimenutive

Answer: A

## SSC CGL Previous Papers (DOWNLOAD PDF)

### Instructions

In the following Four Questions, four alternatives are given for the Idiom/Phrase underlined. Choose the alternatives which best expresses the meaning of the Idiom/Phrase and mark it in the Answer Sheet.

### Question 91

To eat humble pie.

- A to pretend to be humble
- B to act apologetically
- C to have a low estimate of oneself
- D to starve

Answer: B

### Question 92

A Wild Goose Chase

- A a desperate effort
- B a useless effort
- C a good effort
- D a baseless effort

Answer: B

### Question 93

Men like Vidyasagar and Bhagat Singh are the salt of the earth.

- A famous men
- B ideal men
- C hardworking men
- D makers of the earth

Answer: B

## SSC CGL Free Mock Test (Latest Pattern)

### Question 94

There was a definite element of fabrication in the story, but he believed the account hook, line and sinker.

- A a little bit
- B hardly
- C not wholly
- D completely

**Answer: D**

**Instructions**

In the following Four Questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error and blacked the circle [•] corresponding to the appropriate correct option. If a sentence is free from error, blacken the circle [•] corresponding to "No Error" in the Answer Sheet.

**Question 95**

**I jumped with the opportunity of going to Kashmir.**

- A of going to Kashmir
- B with the opportunity
- C No error
- D I jumped

**Answer: B**

**Question 96**

**Tutankhamun's death mask is still untarnished after thirty four centuries.**

- A No error
- B after thirty four centuries
- C Tutankhamun's death mask
- D is still untarnished

**Answer: D**

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

**Question 97**

**Forty minutes later James return to his family bearing an important piece of news.**

- A bearing an important piece of news
- B Forty minutes later
- C No error
- D James return to his family

**Answer: D**

**Question 98**

**The flower and the vine are growing well.**

- A No error
- B The flower
- C and the vine
- D are growing well.

**Answer: A**

**Instructions**

In the following Two Questions, a sentence has been given in Active/Passive Voice, Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active Voice and mark you answer in the Answer-Sheet.

**Question 99**

**He may have left a message for me.**

- A He might have left a message for me.
- B A message may have been left for me.
- C A message may have been left for me by him.
- D A message might be left for me by him.

**Answer: C**

**SSC CHSL Study Material**

**Question 100**

**Was the question answered?**

- A Did the question get answered?
- B Were they answering the question
- C Was the answer to the question given?
- D Did they answer the questions?

**Answer: D**

**SSC CHSL Free App**

**Quant**

**Instructions**

For the following questions answer them individually

**Question 101**

**In 2 kg mixture of copper and aluminum, 30% is copper. How much aluminum powder should be added to the mixture so that the proportion of the copper becomes 20%?**

- A 1000 gms
- B 800 gms



C 1200 gms

D 900 gms

Answer: A

**Explanation:**

Given, Weight of the mixture = 2kg = 2000 grams

Percentage of copper = 30%

⇒ Percentage of Aluminium = 70%

⇒ Weight of Aluminium =  $\frac{70}{100} \times 2000 = 1400$  grams

Let the weight of the Aluminium powder added =  $x$

After the addition of Aluminium powder,

Percentage of copper = 20%

⇒ Percentage of Aluminium powder = 80%

According to the Problem,

$$1400 + x = \frac{80}{100} (2000 + x)$$

$$\Rightarrow 1400 + x = \frac{4}{5} (2000 + x)$$

$$\Rightarrow 7000 + 5x = 8000 + 4x$$

$$\Rightarrow x = 1000 \text{ grams}$$

∴ Weight of the aluminium powder added to the mixture = 1000 grams

Hence, the correct answer is Option A

## Daily Free SSC Practice Set

**Instructions**

Read it carefully and answer Five Questions.

Total cost of production of a firm is ₹ 250 lakh. Following pie-chart shows the percentage of costs of production in different purposes.

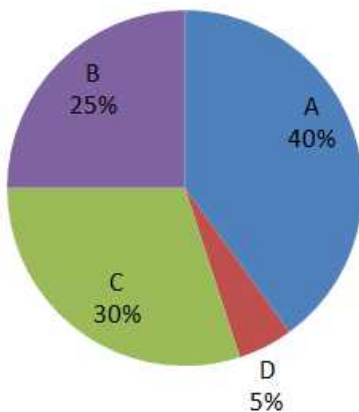
Letters A, B, C, D represent the following:

A = Cost of raw materials

B = Cost of packing materials

C = Cost of labour

D = Maintenance cost



**Question 102**

If the production increases to five times of the present cost, then the percentage increase of the cost is

A 50%

- B 400%
- C 300%
- D 500%

**Answer: B**

**Explanation:**

If the production increases by five times then cost will be increased by five times

$$\therefore \text{Percentage increase of the cost} = \frac{5 \times 250 - 250}{250} \times 100 = \frac{4 \times 250}{250} \times 100 = 400\%$$

**Question 103**

**Cost of packing materials and raw materials together amounts to**

- A ₹ 162.5 lakh
- B ₹ 175 lakh
- C ₹ 137.5
- D ₹ 87.5

**Answer: A**

**Explanation:**

$$\text{Cost of packing materials and raw materials together} = \frac{25}{100} \times 250 + \frac{40}{100} \times 250 = \frac{65}{100} \times 250 = 162.5 \text{ lakhs}$$

**Question 104**

**If the cost of production doubles in a period of 3 years, then the corresponding maintenance cost in rupees will be**

- A ₹ 75 lakh
- B ₹ 12.5 lakh
- C ₹ 25 lakh
- D ₹ 125 lakh

**Answer: C**

**Explanation:**

According to the Problem,

$$\text{Cost of production after 3 years} = 2 \times 250 = 500 \text{ lakh}$$

$$\text{Maintenance cost after 3 years} = \frac{5}{100} \times 500 = 25 \text{ lakh}$$

Hence, the correct answer is Option C

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**Question 105**

**If the total maintenance cost increases from ₹ 12.5 lakh to ₹ 50 lakh, then the percentage increase of the maintenance cost is**

- A 25%
- B 75%
- C 400%

D 300%

Answer: D

Explanation:

Percentage increase of maintenance cost =  $\frac{37.5}{12.5} \times 100 = 300\%$

Hence, the correct answer is Option D

Question 106

If the packing cost increases by 2%, then the new packing cost will be

A ₹ 62.5 lakh

B ₹ 5 lakh

C ₹ 1.25 lakh

D ₹ 63.75 lakh

Answer: D

Explanation:

Packing Cost =  $\frac{25}{100} \times 250 = 62.5$  lakh

Given, packing cost is increased by 2%

$\Rightarrow$  New Packing Cost =  $\frac{102}{100} \times 62.5 = 63.75$  lakh

Instructions

For the following questions answer them individually

Question 107

Arvind deposited a sum of money with a bank on 1st January, 2012 at 8% simple interest per annum. He received an amount ₹ 3,144 on 7th August, 2012.

A ₹ 3,080

B ₹ 3,000

C ₹ 2,500

D ₹ 3,100

Answer: B

Explanation:

Given,

Amount (A) = ₹ 3,144

Rate of interest (R) = 8% per annum

Time (T) = 31 + 28 + 31 + 30 + 31 + 30 + 31 + 7 = 219 days =  $\frac{219}{365}$  years

Let Principal amount = P

$$\Rightarrow A = \frac{P \times T \times R}{100} + P$$

$$\Rightarrow 3144 = \frac{P \times \frac{219}{365} \times 8}{100} + P$$

$$\Rightarrow 3144 = \frac{P \times 3 \times 8}{5 \times 100} + P$$

$$\Rightarrow 3144 = \frac{P \times 3 \times 8}{5 \times 100} + P$$

$$\Rightarrow 314400 = \frac{24P}{5} + 100P$$

$$\Rightarrow 314400 = \frac{524P}{5}$$

$$\Rightarrow 524P = 314400 \times 5$$

$$\Rightarrow P = ₹ 3000$$

Hence, the correct answer is Option B

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### Question 108

ABCD is a cyclic quadrilateral, AB is the diameter of the circle. If  $\angle ACD = 50^\circ$ , the measure of  $\angle BAD$  is

A  $130^\circ$

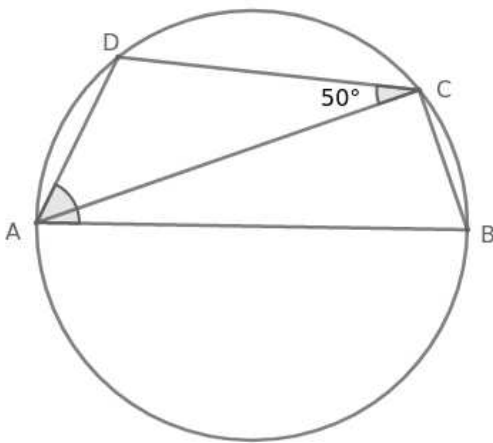
B  $40^\circ$

C  $50^\circ$

D  $140^\circ$

Answer: B

Explanation:



Given,  $\angle ACD = 50^\circ$

Angle subtended by the diameter in a semicircle is  $90^\circ$

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

In cyclic quadrilateral ABCD, sum of opposite angles =  $180^\circ$

$$\Rightarrow \angle BAD + \angle BCD = 180^\circ$$

$$\Rightarrow \angle BAD + \angle ACB + \angle ACD = 180^\circ$$

$$\Rightarrow \angle BAD + 90^\circ + 50^\circ = 180^\circ$$

$$\Rightarrow \angle BAD + 140^\circ = 180^\circ$$

$$\Rightarrow \angle BAD = 40^\circ$$

Hence, the correct answer is Option B

### Question 109

A man rows 12 km in 5 hours against the stream, the speed of current being 4 kmph. What time will be taken by him to row 15 km with the stream?

- A 1 hour  $\frac{319}{13}$  min.
- B 1 hour  $\frac{358}{13}$  min
- C 1 hour  $\frac{345}{13}$  min
- D 1 hour  $\frac{332}{13}$  min

**Answer: C**

**Explanation:**

Let the speed of the man in still water = 'm' kmph

Speed of current(s) = 4 kmph

Upstream Speed =  $\frac{12.5}{5} = 2.4$  kmph

$\Rightarrow m - s = 2.4$

$\Rightarrow m - 4 = 2.4$

$\Rightarrow m = 6.4$  kmph

$\therefore$  Downstream speed =  $m + s = 6.4 + 4 = 10.4$  kmph

Time taken by the man to row 15 km with stream =  $\frac{15}{\text{Downstream Speed}} = \frac{15}{10.4} = \frac{75}{52} = 1 \text{ hr} + \frac{23}{52} \times 60 \text{ min} = 1 \text{ hr } \frac{345}{13} \text{ min}$

Hence, the correct answer is Option C

**Question 110**

$(x^3 - y^6)(x^3 - y^6)$  is equal to

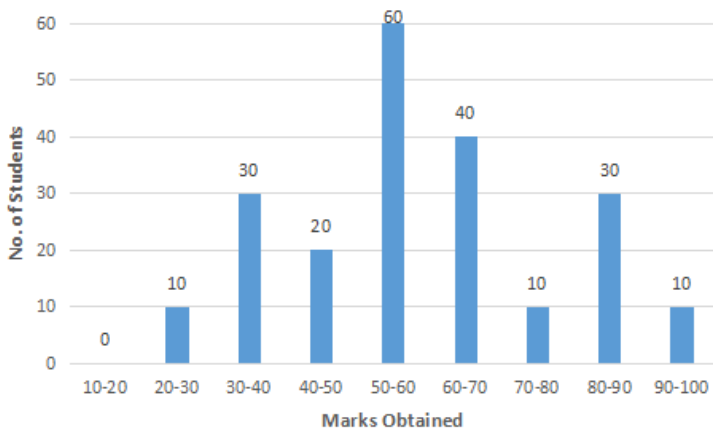
- A  $x^6 + y^{12}$
- B  $x^9 - y^{36}$
- C  $x^9 + y^{36}$
- D  $x^6 - y^{12}$

**Answer: D**

**SSC Exam Update Videos & Free Study Material (YouTube Channel)**

**Instructions**

Study the following histogram and answer the Four questions.



**Question 111**

The total no. of students on whom this survey was made is

- A 200
- B 210
- C 190
- D 220

**Answer: B**

**Explanation:**

From the given histogram,

The total no. of students on whom this survey was made =  $0+10+30+20+60+40+10+30+10 = 210$

**Question 112**

The percentage of students securing marks less than 50 is

- A  $\left(\frac{1000}{21}\right)\%$
- B  $\left(\frac{194}{7}\right)\%$
- C  $\left(\frac{496}{21}\right)\%$
- D  $\left(\frac{200}{7}\right)\%$

**Answer: D**

**Explanation:**

From the given histogram,

Number of students who secured less than 50 =  $0+10+30+20 = 60$

Total number of students =  $0+10+30+20+60+40+10+30+10 = 210$

$\therefore$  Percentage of students securing marks less than 50 =  $\frac{60}{210} \times 100 = \left(\frac{200}{7}\right)\%$

Hence, the correct answer is Option D

**Question 113**

The no. of students securing marks in the range 90-100 is

- A 10
- B 30
- C 20
- D 40

**Answer: A**

**Explanation:**

From the histogram,

The number of students securing marks in the range of 90-100 = 10

**Question 114**

The range of marks obtained by maximum no. of students is

- A 30-40
- B 60-70
- C 80-90
- D 50-60

**Answer: D**

**Explanation:**

From the histogram,

The range of marks obtained by maximum number of students (i.e, 60 students)= 50-60

**Instructions**

For the following questions answer them individually

**Question 115**

A man spends his three months' income in four months' time. If his monthly income is ₹ 1,000, then his annual saving is

- A ₹ 9,000
- B ₹ 6,000
- C ₹ 4,000
- D ₹ 3,000

**Answer: D**

**Explanation:**

Given, Monthly income of man = ₹ 1,000

Man spends three months income in four months time

⇒ For every 4 months man saves 1 month income

⇒ For 12 months the man saves 3 months income i.e,  $3 \times 1000 = ₹ 3,000$

Hence, the correct answer is Option D

**Question 116**

Divide 27 into two parts so that 5 times the first and 11 times the second together equals to 195. Then ratio of the first and second parts is

- A 17 : 10
- B 3 : 2
- C 2 : 7
- D 5 : 4

**Answer: A**

**Explanation:**

Let the two parts be  $x, 27 - x$

According to the Problem

$$5x + 11(27 - x) = 195$$

$$\Rightarrow 5x + 297 - 11x = 195$$

$$\Rightarrow 6x = 297 - 195$$

$$\Rightarrow x = 17$$

$$\therefore \text{Required ratio} = x : (27 - x) = 17 : (27 - 10) = 17 : 10$$

Hence, the correct answer is Option A

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### Question 117

The value of  $(\cos 0^\circ + \sin 45^\circ + \sin 30^\circ)(\sin 90^\circ - \cos 45^\circ + \cos 60^\circ)$  is

A  $\frac{5}{4}$

B  $\frac{3}{2}$

C  $\frac{3}{4}$

D  $\frac{7}{4}$

Answer: D

Explanation:

$$(\cos 0^\circ + \sin 45^\circ + \sin 30^\circ)(\sin 90^\circ - \cos 45^\circ + \cos 60^\circ) = \left(1 + \frac{1}{\sqrt{2}} + \frac{1}{2}\right) \left(1 - \frac{1}{\sqrt{2}} + \frac{1}{2}\right) = \left(\frac{3}{2} + \frac{1}{\sqrt{2}}\right) \left(\frac{3}{2} - \frac{1}{\sqrt{2}}\right) = \frac{9}{4} - \frac{1}{2} = \frac{7}{4}$$

### Question 118

Simplify  $\sqrt[4]{0.0625} + \sqrt[3]{0.008} + \sqrt{0.09} - 1$

A  $\frac{1}{5}$

B 2.4

C 1.25

D 0

Answer: D

Explanation:

$$0.5 + 0.2 + 0.1 - 1.0/3\sqrt{6.25} \times 2$$

$$1.0 - 1.0/3\sqrt{6.25} \times 2$$

$$0/3\sqrt{12.50}$$

$$= > 0$$

### Question 119

One-fifth of half of a number is 20. Then 20% of that number is

A 60

B 20



C 80

D 40

Answer: D

Explanation:

$$1/5 * 1/2 * x = 20$$

$$x = 200$$

$$200 * 20 / 100 = 40$$

## 25 SSC CHSL Mocks for just Rs. 149

### Question 120

The weight of a container completely filled with water is 2.25 kg. The container weighs 0.77 kg when its 0.2 part is filled with water. The weight (in kg) of a container when 0.4 part of it is filled with water, is

A 0.40

B 1.88

C 0.74

D 1.14

Answer: D

Explanation:

Let the weight of the only container = a

Let the weight of only water when the container is completely filled = w

The weight of container when completely filled with water = 2.25 kg

$$\Rightarrow w + a = 2.25 \dots\dots\dots(1)$$

The weight of container when 0.2 part is filled with water = 0.77 kg

$$\Rightarrow 0.2w + a = 0.77 \dots\dots\dots(2)$$

Solving (1) - (2)

$$0.8w = 1.48$$

$$\Rightarrow w = \frac{148}{80} = 1.85 \text{ kg}$$

From (1),  $1.85 + a = 2.25$

$$\Rightarrow a = 0.4 \text{ kg}$$

$\therefore$  The weight of container when 0.4 part is filled with water =  $0.4w + a = 0.4(1.85) + 0.4 = 1.14 \text{ kg}$

Hence, the correct answer is Option D

### Question 121

The sum of  $\frac{1}{x+y}$  and  $\frac{1}{x-y}$  is

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

B  $\frac{2y}{x^2-y^2}$

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

D  $\frac{-2y}{(x^2-y^2)}$

Answer: C

Explanation:

$$\frac{1}{x+y} + \frac{1}{x-y} = \frac{x-y+x+y}{x^2-y^2} = \frac{2x}{x^2-y^2}$$

Question 122

The LCM of two numbers is 12 times their HCF. The sum of the HCF and LCM is 403. If one of the number is 93, then the other is

A 120

B 124

C 112

D 116

Answer: B

Explanation:

Given, LCM of two numbers is 12 times their HCF

$$\Rightarrow \text{LCM} = 12 \text{ HCF}$$

Sum of HCF and LCM is 403

$$\Rightarrow \text{HCF} + \text{LCM} = 403$$

$$\Rightarrow \text{HCF} + 12 \text{ HCF} = 403$$

$$\Rightarrow 13 \text{ HCF} = 403$$

$$\Rightarrow \text{HCF} = 31$$

$$\therefore \text{LCM} = 12 \text{ HCF} = 12(31)$$

$$\Rightarrow \text{LCM} = 372$$

Let the second number be  $x$

Product of numbers = Product of their LCM and HCF

$$\Rightarrow 93 \times x = 372 \times 31$$

$$\Rightarrow x = 124$$

$\therefore$  The other number is 124

Hence, the correct answer is Option B

## SSC CHSL Free Mock Test

Question 123

The average marks of 14 students was 17. It was later found that the marks of one of the students has been wrongly entered as 42 instead of 56 and of another as 74 instead of 32. What is the correct average?

A 69

B 68

C 71

D 67

Answer: A

**Explanation:**

given that the average of 14 students is 17

so sum of the marks =  $14 \times 17$

$\Rightarrow 238$

given that 42 is entered instead of 56 and 74 instead of 32

so  $238 + (56 - 42) - (74 - 32)$

$238 + 14 - 42 = 210$

now the average is  $210/14$

**Question 124**

A can do half of a piece of work in 1 day, whereas B can do full. B can do half the work as C in 1 day. The ratio of their efficiencies of work is

A 2 : 4 : 1

B 2 : 1 : 4

C 4 : 2 : 1

D 1 : 2 : 4

**Answer:** D

**Explanation:**

Let the Work be  $W$

According to the Problem,

Work done by A in 1 day =  $\frac{W}{2}$

Work done by B in 1 day =  $W$

Given, B can do half the work as C in 1 day

$\Rightarrow W = \frac{\text{Work done by C in 1 day}}{2}$

$\Rightarrow$  Work done by C in 1 day =  $2W$

$\therefore$  Ratio of their efficiencies of work =  $\frac{W}{2} : W : 2W = \frac{1}{2} : 1 : 2 = 1 : 2 : 4$

Hence, the correct answer is Option D

**Question 125**

If  $x = 5$ , then the value of the expression  $x^2 - 2 + \left(\frac{1}{x^2}\right)$  is

A  $\frac{24}{25}$

B  $\frac{576}{25}$

C  $\frac{24}{5}$

D  $\frac{625}{24}$

**Answer:** B

**Explanation:**

Given,  $x = 5$  then

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

$$= \frac{625-50+1}{25}$$

$$= \frac{576}{25}$$

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 126

If  $a + \left(\frac{1}{a}\right) = -1$ , then the value of  $(1 - a + a^2)(1 + a - a^2)$  is

- A -4
- B 4
- C 1
- D 0

Answer: B

Explanation:

$$\frac{a^2+1}{a} = -1$$

$$a + \frac{1}{a} = -1$$

$$\frac{a^2+1}{a} = -1$$

$$a^2 = -a - 1$$

Therefore

$$(1 - a + a^2)(1 + a - a^2) = (1 - a - 1 - a)(1 + a + 1 + a^2) = (-2a)(2 + 2a) = -4a - 4a^2 = -4(a + a^2) = -4(-1) = 4$$

### Question 127

Base of a prism of height 10 cm is square. Total surface area of the prism is 192 sq. cm. The volume of the prism is

- A  $640 \text{ cm}^3$
- B  $120 \text{ cm}^3$
- C  $90 \text{ cm}^3$
- D  $160 \text{ cm}^3$

Answer: D

Explanation:

Given,

Height of the square based prism (h) = 10 cm

Let the length of the side of the square base = a

Total surface area of the prism = 192 sq cm

$$\Rightarrow 2a^2 + 4ah = 192$$

$$\Rightarrow a^2 + 2a(10) = 96$$

$$\Rightarrow a^2 + 20a - 96 = 0$$

$$\Rightarrow a^2 + 24a - 4a - 96 = 0$$

$$\Rightarrow a(a+24) - 4(a+24) = 0$$

$$\Rightarrow (a+24)(a-4) = 0$$

$$\Rightarrow a+24=0 \text{ or } a-4=0$$

$$\Rightarrow a = -24 \text{ or } a = 4$$

a cannot be negative

$$\Rightarrow a = 4 \text{ cm}$$

$$\therefore \text{Volume of the Prism} = \text{Area of base} \times \text{Height of the prism} = a^2 \times h = 4^2 \times 10 = 16 \times 10 = 160 \text{ cm}^2$$

Hence, the correct answer is Option D

#### Question 128

15 men can finish a work in 20 days, however it takes 24 women to finish it in 20 days. If 10 men and 8 women undertake to complete the work, then they will take

A 10 days

B 20 days

C 15 days

D 30 days

Answer: B

#### Explanation:

Given, 15 men can finish a work in 20 days

$$\Rightarrow 1 \text{ man can finish the work in } 20 \times 15 = 300 \text{ days}$$

$$\Rightarrow \text{Work done by 1 man in 1 day} = \frac{1}{300}$$

24 women can finish the work in 20 days

$$\Rightarrow 1 \text{ woman can finish the work in } 20 \times 24 = 480 \text{ days}$$

$$\Rightarrow \text{Work done by 1 woman in 1 day} = \frac{1}{480}$$

$$\therefore \text{Work done by 10 men and 8 women in 1 day} = 10 \left( \frac{1}{300} \right) + 8 \left( \frac{1}{480} \right) = \frac{1}{30} + \frac{1}{60} = \frac{1}{20}$$

$$\Rightarrow \text{Number of days required to complete the work by 10 men and 8 women} = 20 \text{ days}$$

Hence, the correct answer is Option B

## SSC CGL Previous Papers (DOWNLOAD PDF)

#### Question 129

A low land, 48 m long and 31.5 m broad is raised to 6.5 dm. For this, earth is removed from a cuboidal hole, 27 m long and 18.2 m broad, dug by the side of the land. The depth of the hole will be

A 2.2 m

B 3 m

C 2 m

D 2.5 m

Answer: C

#### Explanation:

Given, dimensions of low land are length (l) = 48 m

Breadth (b) = 31.5 m

Depth (h) = 6.5 dm = 0.65 m

$$\text{Volume of low land} = lbh = 48 \times 31.5 \times 0.65$$

Let the depth of the hole =  $d$

Length of the cuboidal hole = 27 m

Breadth of the cuboidal hole = 18.2 m

$$\text{Volume of cuboidal hole} = 27 \times 18.2 \times d$$

Since low land is filled from the cuboidal hole

Volume of low land = Volume of cuboidal hole

$$\Rightarrow 48 \times 31.5 \times 0.65 = 27 \times 18.2 \times d$$

$$\Rightarrow d = 2 \text{ m}$$

$\therefore$  The depth of the hole = 2 m

Hence, the correct answer is Option C

### Question 130

A man rows to a place 60 km distant and back in 13 hours 30 minutes. He finds that he can row 5 km with the stream in the same time as he can row 4 km against the stream. Find the rate of the stream.

A 10 km/hr

B 1 km/hr

C 8 km/hr

D  $1/2$  km/hr

**Answer: B**

### Explanation:

Let the speed of man in still water =  $m$

rate of stream =  $s$

Given, man can row 5 km with the stream in the same time as he can row 4 km against the stream

$$\Rightarrow \frac{5}{m+s} = \frac{4}{m-s}$$

$$\Rightarrow 5m - 5s = 4m + 4s$$

$$\Rightarrow m = 9s$$

Man rows to a place 60 km distant and back in 13 hours 30 minutes

$$\Rightarrow \frac{60}{m+s} + \frac{60}{m-s} = 13 + \frac{1}{2}$$

$$\Rightarrow \frac{60}{9s+s} + \frac{60}{9s-s} = \frac{26+1}{2}$$

$$\Rightarrow \frac{60}{10s} + \frac{60}{8s} = \frac{27}{2}$$

$$\Rightarrow \frac{6}{s} + \frac{15}{2s} = \frac{27}{2}$$

$$\Rightarrow \frac{12+15}{2s} = \frac{27}{2}$$

$$\Rightarrow \frac{27}{2s} = \frac{27}{2}$$

$$\Rightarrow s = 1$$

$\therefore$  Rate of stream = 1 km/hr

Hence, the correct answer is Option B

### Question 131

BE, CF are two medians of  $\triangle ABC$  and G is their point of intersection. EF cuts AG at O. Ratio of AO : OG is equal to

A 3 : 1

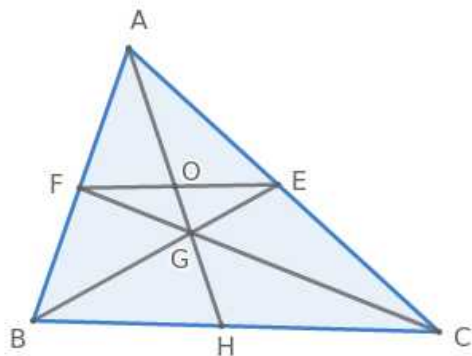
B 1 : 3

C 1 : 2

D 2 : 3

Answer: A

Explanation:



BE, CF are two medians of  $\triangle ABC$  and G is their point of intersection

$$\Rightarrow AB = 2AF \text{ and } AC = 2AE$$

$\Rightarrow$  G is the centroid of the  $\triangle ABC$  and divides the median AH in the ratio 2 : 1

$$\Rightarrow AG : GH = 2 : 1$$

$$\Rightarrow AG = 2GH \dots\dots\dots(1)$$

$\triangle AFE$  is similar to  $\triangle ABC$

$$\Rightarrow \frac{AF}{AB} = \frac{AO}{AH}$$

$$\Rightarrow \frac{AF}{2AF} = \frac{AO}{AG+GH}$$

$$\Rightarrow \frac{1}{2} = \frac{AO}{2GH+GH}$$

$$\Rightarrow \frac{1}{2} = \frac{AO}{3GH}$$

$$\Rightarrow GH = \frac{2}{3}AO \dots\dots\dots(2)$$

From (1) and (2)

$$AG = 2\left(\frac{2}{3}AO\right)$$

$$\Rightarrow AO + OG = \frac{4}{3}AO$$

$$\Rightarrow OG = \frac{4}{3}AO - AO$$

$$\Rightarrow OG = \frac{1}{3}AO$$

$$\Rightarrow \frac{AO}{OG} = \frac{3}{1}$$

$$\Rightarrow AO : OG = 3 : 1$$

Hence, the correct answer is Option A

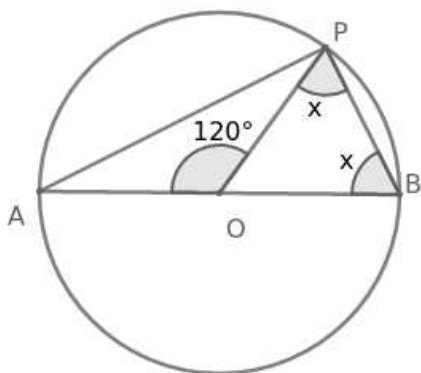
Question 132

AB is diameter of a circle having centre at O. P is a point on the circumference of the circle. If  $\angle POA = 120^\circ$ , then the measure of  $\angle PBO$  is

- A  $75^\circ$
- B  $68^\circ$
- C  $70^\circ$
- D  $60^\circ$

Answer: D

Explanation:



Given,  $\angle POA = 120^\circ$

In  $\triangle OPB$ ,

$OP = OB$

$\Rightarrow \angle PBO = \angle BPO$

Let  $\angle PBO = \angle BPO = x$

From the figure,

$\angle POA + \angle POB = 180^\circ$

$\Rightarrow 120^\circ + \angle POB = 180^\circ$

$\Rightarrow \angle POB = 60^\circ$

In  $\triangle OPB$ ,

$\angle POB + \angle PBO + \angle BPO = 180^\circ$

$\Rightarrow 60^\circ + x + x = 180^\circ$

$\Rightarrow 2x = 120^\circ$

$\Rightarrow x = 60^\circ$

$\Rightarrow \angle PBO = x = 60^\circ$

Hence, the correct answer is Option D

Question 133

If  $2 \sin^2 q - 3 \sin q + 1 = 0$ ,  $q$  being positive angle less than or equal to 90 degrees, then the values of  $q$  are

- A  $45^\circ, 50^\circ$



B  $60^\circ, 45^\circ$

C  $60^\circ, 55^\circ$

D  $30^\circ, 90^\circ$

**Answer: D**

**Explanation:**

Given,

$$2 \sin^2 q - 3 \sin q + 1 = 0$$

$$\Rightarrow 2 \sin^2 q - 2 \sin q - \sin q + 1 = 0$$

$$\Rightarrow 2 \sin q (\sin q - 1) - 1 (\sin q - 1) = 0$$

$$\Rightarrow (\sin q - 1)(2 \sin q - 1) = 0$$

$$\Rightarrow \sin q - 1 = 0 \text{ or } 2 \sin q - 1 = 0$$

$$\Rightarrow \sin q = 1 \text{ or } \sin q = \frac{1}{2}$$

$$\Rightarrow \sin q = \sin 90^\circ \text{ or } \sin q = \sin 30^\circ$$

$$\Rightarrow q = 90^\circ \text{ or } q = 30^\circ$$

Hence, the correct answer is Option D

**Question 134**

**A discount series of 10%, 20% and 40% is equal to a single discount of**

A 50%

B 60.28%

C 60%

D 56.8%

**Answer: D**

**Explanation:**

Let the Marked price = M

$$\text{Price after 10\% discount} = \frac{90}{100} M$$

$$\text{Price after 20\% discount} = \frac{20}{100} \times \frac{90}{100} M$$

$$\text{Price after 40\% discount} = \frac{40}{100} \times \frac{20}{100} \times \frac{90}{100} M = \frac{432}{1000} M$$

$$\text{Selling price} = \frac{432}{1000} M$$

$$\text{Overall discount\%} = \frac{M - \frac{432}{1000} M}{M} \times 100 = \frac{568}{1000} \times 100 = 56.8\%$$

Hence, the correct answer is Option D

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

**Question 135**

**A vendor purchased 40 dozen bananas for ₹ 250. Out of these 30 bananas were rotten and could not be sold. At what rate per dozen should he sell the remaining bananas to make a profit of 20%?**

A ₹ 6

B ₹ 12

C ₹ 10

D ₹ 8

Answer: D

**Explanation:**

Cost Price of 40 dozen bananas = ₹ 250

i.e, Cost Price of 480 bananas = ₹ 250 (1 dozen = 12)

The remaining bananas after 30 bananas were rotten =  $480 - 30 = 450$

Profit% = 20%

$\Rightarrow$  Selling Price of 450 bananas =  $\frac{120}{100} \times 250 = ₹300$

$\Rightarrow$  Selling Price of 12 bananas (1 dozen) =  $\frac{12}{450} \times 300 = ₹8$

Hence, the correct answer is Option D

**Question 136**

The length of two parallel chords of a circle of radius 5 cm are 6 cm and 8 cm in the same side of the centre. The distance between them is

A 1.5 cm

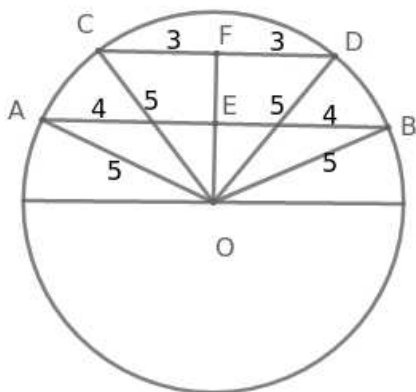
B 2 cm

C 1 cm

D 3 cm

Answer: C

**Explanation:**



Let AB and CD are the two parallel chords

From the figure,

In  $\triangle OFD$ ,

OD = radius = 5 cm

FD = 3 cm

$$FD^2 + OF^2 = OD^2$$

$$\Rightarrow 3^2 + OF^2 = 5^2$$

$$\Rightarrow 9 + OF^2 = 25$$

$$\Rightarrow OF^2 = 25 - 9$$

$$\Rightarrow OF^2 = 16$$

$$\Rightarrow OF = 4 \text{ cm}$$

In  $\triangle OBE$ ,

OB = radius = 5 cm

EB = 4 cm

$$EB^2 + OE^2 = OB^2$$

$$\Rightarrow 4^2 + OE^2 = 5^2$$

$$\Rightarrow 16 + OE^2 = 25$$

$$\Rightarrow OE^2 = 25 - 16$$

$$\Rightarrow OE^2 = 9$$

$$\Rightarrow OE = 3 \text{ cm}$$

$\therefore$  The distance between the parallel chords =  $OF - OE = 4 - 3 = 1 \text{ cm}$

Hence, the correct answer is Option C

#### Question 137

The time required for a sum of money to amount to four-time itself at 15% simple interest p.a. will be

A 20 years

B 30 years

C 15 years

D 10 years

**Answer:** A

#### Explanation:

Given,

Rate of simple interest = 15%

Let principal amount = P

Time required = T

$$\Rightarrow \text{Simple interest} = \frac{P \times T \times 15}{100} = \frac{15PT}{100}$$

According to the problem, Total amount = 4P

$$\Rightarrow P + \frac{15PT}{100} = 4P$$

$$\Rightarrow \frac{15PT}{100} = 3P$$

$$\Rightarrow T = 20 \text{ years}$$

$\therefore$  Required time = 20 years

Hence, the correct answer is Option A

## SSC CHSL Study Material

#### Question 138

Average age of seven person in a group is 30 years, the average age of five persons of this group is 31 years. What is the average age of the other two persons in the group/

- A 15 years
- B 26 years
- C 55 years
- D None of these

**Answer: D**

**Explanation:**

given that average age of 7 persons in the group is 30 years

sum of ages =  $7 \times 30$

= 210

Also given that the average age of 5 persons in the group is 31 years

so the sum of 5 people = 155

to get the average of other two people, subtract 155 from 210

55

so average of this is

$\frac{55}{2}$

= 27.5

since the option is not given, answer is none of these

**Question 139**

The value of  $\sec^4 A(1 - \sin^4 A) - 2 \tan^2 A$  is

- A 1
- B 2
- C  $\frac{1}{2}$
- D 0

**Answer: A**

**Explanation:**

$$\sec^4 A(1 - \sin^4 A) - 2 \tan^2 A = \sec^4 A - \sec^4 A \sin^4 A - 2 \tan^2 A$$

$$= \sec^4 A - \frac{\sin^4 A}{\cos^4 A} - 2 \tan^2 A$$

$$= \sec^4 A - \tan^4 A - 2 \tan^2 A$$

$$= (\sec^2 A + \tan^2 A)(\sec^2 A - \tan^2 A) - 2 \tan^2 A$$

$$= (\sec^2 A + \tan^2 A)(1) - 2 \tan^2 A$$

$$= \sec^2 A + \tan^2 A - 2 \tan^2 A$$

$$= \sec^2 A - \tan^2 A$$

$$= 1$$

Hence, the correct answer is Option A

**Question 140**

After deducting a commission of 5%, a T.V. set costs ₹ 9,595. Its marked price is

- A ₹ 12,000

- B ₹ 10,000
- C ₹ 10,100
- D ₹ 10,074.75

**Answer: C**

**Explanation:**

Let the Marked price = M

Commission on the marked price = 5%

Given, Selling price = ₹ 9,595

$$\Rightarrow \frac{95}{100}M = 9595$$

$$\Rightarrow M = ₹ 10,100$$

∴ Marked price = ₹ 10,100

Hence, the correct answer is Option C

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**Question 141**

If  $5 \tan A = 4$ , then the value of  $\frac{5 \sin A - 3 \cos A}{\sin A + 2 \cos A}$  is

- A  $\frac{5}{14}$
- B  $\frac{9}{14}$
- C  $\frac{5}{6}$
- D  $\frac{7}{9}$

**Answer: A**

**Explanation:**

Given,  $5 \tan A = 4$

$$\Rightarrow \tan A = \frac{4}{5}$$

$$\therefore \frac{5 \sin A - 3 \cos A}{\sin A + 2 \cos A} = \frac{\cos A \left( 5 \frac{\sin A}{\cos A} - 3 \right)}{\cos A \left( \frac{\sin A}{\cos A} + 2 \right)}$$

$$= \frac{5 \tan A - 3}{\tan A + 2}$$

$$= \frac{5 \left( \frac{4}{5} \right) - 3}{\frac{4}{5} + 2}$$

$$= \frac{4 - 3}{\frac{4}{5} + 2}$$

$$= \frac{1}{\frac{14}{5}}$$

Hence, the correct answer is Option A

**Question 142**

If  $x = 2$ ,  $y = 1$  and  $z = -3$ , then  $x^3 + y^3 + z^3 - 3xyz$  is equal to

- A 0

B 2

C 6

D 8

Answer: A

Explanation:

Given,  $x = 2, y = 1, z = -3$  then

$$x + y + z = 2 + 1 - 3 = 0$$

When  $x + y + z = 0$  then  $x^3 + y^3 + z^3 = 3xyz$

$$\text{Therefore } x^3 + y^3 + z^3 - 3xyz = 0$$

Question 143

Which one of the following is true?

A  $0 > \frac{7}{17} > \frac{3}{7} > \frac{3}{5}$

B  $0.5 < \frac{2}{3} < \frac{3}{4} < \left(\frac{16}{25}\right)^{0.5}$

C  $\frac{7}{24} > \frac{1}{3} > \frac{3}{8} > \frac{5}{12}$

D  $\frac{1}{2} > \frac{2}{3} > \frac{3}{4} > \frac{4}{5}$

Answer: B

Explanation:

Option A

$$0 > \frac{7}{17} > \frac{3}{7} > \frac{3}{5}$$

$$\Rightarrow 0 > \frac{7}{17} \times \frac{35}{35} > \frac{3}{7} \times \frac{85}{85} > \frac{3}{5} \times \frac{119}{119}$$

$$\Rightarrow 0 > \frac{245}{525} > \frac{255}{525} > \frac{357}{525}$$

Option B

$$0.5 < \frac{2}{3} < \frac{3}{4} < \left(\frac{16}{25}\right)^{0.5}$$

$$\Rightarrow \frac{1}{2} < \frac{2}{3} < \frac{3}{4} < \frac{4}{5}$$

$$\Rightarrow \frac{30}{60} < \frac{40}{60} < \frac{45}{60} < \frac{48}{60}$$

Option C

$$\frac{7}{24} > \frac{1}{3} > \frac{3}{8} > \frac{5}{12}$$

$$\Rightarrow \frac{7}{24} > \frac{8}{24} > \frac{9}{24} > \frac{10}{24}$$

Option D

$$\frac{1}{2} > \frac{2}{3} > \frac{3}{4} > \frac{4}{5}$$

$$\Rightarrow \frac{30}{60} > \frac{40}{60} > \frac{45}{60} > \frac{48}{60}$$

Hence, the correct answer is Option B

**Question 144**

A bag contains coins of ₹ 1, 50 paise and 25 paise in the ratio 2 : 3 : 5. If the total value of these coins is ₹ 228, then the number of 50 paise coins in that bag was

- A 96
- B 124
- C 112
- D 144

**Answer: D**

**Explanation:**

Let the number of coins of ₹ 1, 50 paise and 25 paise in the bag are  $2p$ ,  $3p$ ,  $5p$  respectively

Given, the total value of these coins is ₹ 228

$$\Rightarrow 2p \times 1 + 3p \times \frac{1}{2} + 5p \times \frac{1}{4} = 228$$

$$\Rightarrow \frac{8p+6p+5p}{4} = 228$$

$$\Rightarrow 19p = 228 \times 4$$

$$\Rightarrow p = 48$$

$$\therefore \text{Number of 50 paise coins in the bag} = 3p = 3 \times 48 = 144$$

**Question 145**

Ram, Rahim and Robert started a partnership business investing ₹ 30,000, ₹ 50,000 and ₹ 40,000 respectively. If they made an annual profit of ₹ 18,504, then the share of Rahim is

- A ₹ 7,510
- B ₹ 7,010
- C ₹ 7,170
- D ₹ 7,710

**Answer: D**

**Explanation:**

Profit Ratio of Ram, Rahim, Robert = 30000 : 50000 : 40000 = 3 : 4 : 5

$$\text{Share of Ram in the annual profit} = \frac{5}{12} \times 18504 = ₹ 7710$$

Hence, the correct answer is Option D

**Question 146**

The radii of a sphere and a right circular cylinder are 3 cm each, If their volumes are equals, then curved surface area of the cylinder is

- A  $75\frac{3}{7} \text{ cm}^2$
- B  $65\frac{3}{7} \text{ cm}^2$
- C  $74\frac{3}{7} \text{ cm}^2$
- D  $72\frac{3}{7} \text{ cm}^2$

**Answer: A**

**Explanation:**

Radius of the sphere ( $r_1$ ) = 3 cm

Radius of the right circular cylinder ( $r_2$ ) = 3 cm

Let the height of the right circular cylinder = h

Volume of sphere = Volume of right circular cylinder

$$\Rightarrow \frac{4}{3} \pi (r_1)^3 = \pi (r_2)^2 h$$

$$\Rightarrow \frac{4}{3} \pi (3)^3 = \pi (3)^2 h$$

$$\Rightarrow h = 4 \text{ cm}$$

Height of the right circular cylinder = 4 cm

$$\therefore \text{The curved surface area of the cylinder} = 2\pi r_2 h = 2 \times \frac{22}{7} \times 3 \times 4 = \frac{528}{7} = 75\frac{3}{7} \text{ cm}^2$$

Hence, the correct answer is Option A

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**Question 147**

If the angles of a triangle are in the ratio 2:3:5, then the measure of the least angle of the triangle is

- A  $20^\circ$
- B  $36^\circ$
- C  $90^\circ$
- D  $18^\circ$

**Answer: B**

**Explanation:**

Given, angles of the triangle are in the ratio 2:3:5

Let the angles of the triangle are 2p, 3p, 5p respectively

$$\Rightarrow 2p + 3p + 5p = 180^\circ$$

$$\Rightarrow 10p = 180^\circ$$

$$\Rightarrow p = 18^\circ$$

$$\therefore \text{Least angle of the triangle} = 2p = 2(18^\circ) = 36^\circ$$

Hence, the correct answer is Option B

**Question 148**

If  $x = a \sec q + b \tan q$  and  $y = a \tan q + b \sec q$  ( $a \neq b$ ), then the value of  $(x^2 - y^2)/(a^2 - b^2)$  is

- A 1
- B  $\frac{1}{2}$
- C 0
- D 2

**Answer: A**

**Explanation:**



$$x = a \sec q + b \tan q$$

$$\Rightarrow x^2 = (a \sec q + b \tan q)^2$$

$$\Rightarrow x^2 = a^2 \sec^2 q + b^2 \tan^2 q + 2ab \sec q \tan q$$

$$y = a \tan q + b \sec q$$

$$\Rightarrow y^2 = (a \tan q + b \sec q)^2$$

$$\Rightarrow y^2 = a^2 \tan^2 q + b^2 \sec^2 q + 2ab \sec q \tan q$$

$$\therefore x^2 - y^2 = a^2 \sec^2 q - a^2 \tan^2 q + b^2 \tan^2 q - b^2 \sec^2 q + 2ab \sec q \tan q - 2ab \sec q \tan q$$

$$\Rightarrow x^2 - y^2 = a^2 (\sec^2 q - \tan^2 q) - b^2 (\sec^2 q - \tan^2 q)$$

$$\Rightarrow x^2 - y^2 = a^2 (1) - b^2 (1)$$

$$\Rightarrow x^2 - y^2 = a^2 - b^2$$

$$\Rightarrow \frac{x^2 - y^2}{a^2 - b^2} = 1$$

Hence, the correct answer is Option A

#### Question 149

ABC is a triangle in which  $\angle A = 90^\circ$ . Let P be any point on side AC. If BC = 10 cm, AC = 8 cm and BP = 9 cm, then AP =

A  $3\sqrt{3}$  cm

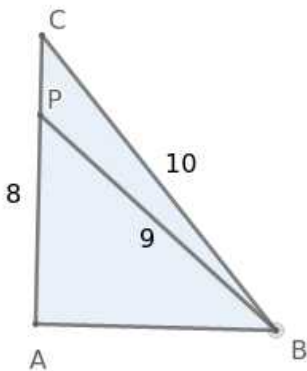
B  $2\sqrt{5}$  cm

C  $2\sqrt{3}$  cm

D  $3\sqrt{5}$  cm

Answer: D

Explanation:



In  $\triangle ABC$ ,

$$AB^2 + AC^2 = BC^2$$

$$\Rightarrow AB^2 + 8^2 = 10^2$$

$$\Rightarrow AB^2 + 64 = 100$$

$$\Rightarrow AB^2 = 100 - 64$$

$$\Rightarrow AB^2 = 36$$

$$\Rightarrow AB = 6 \text{ cm}$$

In  $\triangle APB$ ,

$$AP^2 + AB^2 = BP^2$$

$$\Rightarrow AP^2 + 6^2 = 9^2$$

$$\Rightarrow AP^2 + 36 = 81$$

$$\Rightarrow AP^2 = 81 - 36$$

$$\Rightarrow AP^2 = 45$$

$$\Rightarrow AP = 3\sqrt{5} \text{ cm}$$

Hence, the correct answer is Option D

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### Question 150

A right prism has triangular base. If  $v$  be the number of vertices,  $e$  be the number of edges and  $f$  be the number of faces of the prism.

The value of  $\frac{(v+e-f)}{2}$  is

A 10

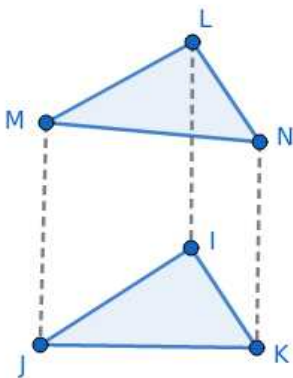
B 2

C 4

D 5

Answer: D

Explanation:



Given, right prism has triangular base

According to the problem,

Number of vertices of the prism =  $v = 6$

Number of edges of the prism =  $e = 9$

Number of faces of the prism =  $f = 5$

$$\therefore \frac{(v+e-f)}{2} = \frac{6+9-5}{2} = \frac{10}{2} = 5$$

Hence, the correct answer is Option D

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**General Awareness**

### Instructions

For the following questions answer them individually

**Question 151**

There are only two metals that are non-silver in color, they are

- A Copper & Gold
- B Sodium & Magnesium
- C Palladium & Platinum
- D Nickel & Zine

**Answer:** A

**Explanation:**

A freshly exposed surface of pure copper has a reddish-orange colour and gold has its own golden colour i.e yellowish shiny.

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**Question 152**

Which is the final Appealable Court of \_\_\_\_\_?????

- A Supreme Court
- B High Court
- C District Court
- D Civil Court

**Answer:** A

**Question 153**

Respiration is controlled by \_\_\_\_ part of brain

- A Cerebellum
- B Olfactory Lobes
- C Hypothalamus
- D Medulla Oblongata

**Answer:** D

**Question 154**

Which country earned the title "The Queen of Seas"?

- A Germany
- B France
- C Britain
- D Italy

**Answer:** B

**Explanation:**

The country known as "Queen of seas" is **France**.

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Question 155

A plane glass slab is kept over colored letters, the letter which appears least raised is

- A Blue
- B Red
- C Green
- D Violet

Answer: B

Question 156

Where is Brabourne Stadium located?

- A Mumbai
- B Jamshedpur
- C Kolkata
- D Cuttack

Answer: A

Question 157

Which of the following works as the basis of conservation of liner \_\_\_\_

- A Rocket
- B Jet
- C Helicopter
- D Aeroplane

Answer: A

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Question 158

A defeat of vision in which the points in one plane of an object appear is focus while those in another plane are out of focus is called.

- A Myopia
- B Distortion
- C Astigmatism
- D Hypermetropia

Answer: B

**Question 159**

The most stable measure of Central tendency is

- A Range
- B Mean
- C Median
- D Mode

**Answer: B**

**Explanation:**

The **Mean** is widely preferred as the **best measure of central tendency** because it is the measure that includes all the values in the data set for its calculation, and any change in any of the scores will affect the value of the mean.

Hence, the correct answer is Option B

**Question 160**

Television was invented by

- A R.A Millikan
- B Louis Braille
- C J.L Baird
- D Lawrence

**Answer: C**

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**Question 161**

Which of the following is observed as Sports Day every year?

- A 2 October
- B 22 April
- C 26 July
- D 29 August

**Answer: D**

**Question 162**

Centre for Ecological Sciences is situated at

- A Allahabad
- B Bengaluru
- C Karnal
- D New Delhi

**Answer: B**

**Question 163**

India's 1<sup>st</sup> Hi-Speed Rural Broadband Network has been commissioned in a district of:

- A Andhra Pradesh
- B Telangana
- C Karnataka
- D Kerala

**Answer: D**

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**Question 164**

What is Hawala?

- A Full details of a object
- B Illegal transactions of foreign exchange
- C Illegal trading of shares
- D Tax evasion

**Answer: B**

**Question 165**

Amjad Ali Khan is associated with which of the following musical instruments?

- A Vkiolin
- B Sitar
- C Sarod
- D Veena

**Answer: C**

**Question 166**

Who was the first to use the term "Micro" Macro" in Economics in 1933?

- A James Tobin
- B Ragnar Frisch
- C Gurly
- D I Fischer

**Answer: B**

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**Question 167**

When did India become a fully sovereign Democratic Republic?

- A 26<sup>th</sup> November, 1949
- B 26<sup>th</sup> November, 1930
- C 26<sup>th</sup> January, 1949
- D 26<sup>th</sup> November, 1951

**Answer: E**

**Question 168**

Who was the first Delhi Sultan to break the power of the Turkish nobles known as the 'Chahalgani' or the 'Forty'?

- A Qutb-ud-din-Aibak
- B Iltutmish
- C Raziya
- D Balban

**Answer: D**

**Explanation:**

Balban was the first Delhi Sultan to break the power of the Turkish nobles .

**Question 169**

Penicillin was discovered by:

- A Ian Fleming
- B Alexander Fleming
- C Edward Jenner
- D Louis Pasteur

**Answer: B**

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**Question 170**

The system in which the few govern many is known as

- A Monarchy
- B a
- C Autocracy
- D Plutocracy

**Answer: B**

Question 171

Reserve Bank of India was nationalized in:

- A 1945
- B 1947
- C 1948
- D 1949

Answer: D

Question 172

Vitamin which provides immunity

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

Answer: D

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Question 173

The hard enamel layer of teeth is:

- A Calcium Phosphate
- B Calcium oxide
- C Calcium hydroxyl apatite
- D Calcium hydroxide

Answer: A

Explanation:

**Enamel** is **the hardest** substance in the human body and contains the highest percentage of minerals, 96%, with water and organic material composing the rest. The primary mineral is hydroxyapatite, which is a crystalline calcium phosphate.

Question 174

Mercury thermometer was invented by:

- A Galileo
- B Fahrenheit
- C Newton
- D Priestley

Answer: B



**Question 175**

Which gas is responsible for depletion of ozone layer around earth which protect us from harmful ultra-violet rays?

- A Chlorofluro carbons
- B Nitrogen
- C Oxygen
- D Nitrogen oxide

**Answer: A**

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**Question 176**

The 'Great Bath' was found at:

- A Harappa
- B Mohenjodaro
- C Lothal
- D Chanudaro

**Answer: B**

**Question 177**

A sufficiently large scale map indicating the detailed surface features of an area including relief is called:

- A Relief map
- B Chorographical map
- C Topographical map
- D Wall map

**Answer: C**

**Question 178**

The World Environment Day is celebrated on

- A June 16
- B June 5
- C April 7
- D August 6

**Answer: B**

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Question 179

Who is the founder of Homeopathy?

- A Lainnce
- B Wakesman
- C Hahnemann
- D Domagk

Answer: C

Question 180

Which of the following is the best indicator of  $SO_2$  pollution?

- A Bryophyte
- B Pteridophyte
- C Lichen
- D Alge

Answer: C

Explanation:

Lichens are the best indicator of environmental pollution mainly  $SO_2$ . **Lichen** is a mutualistic association of algae and fungi.

Question 181

To whom did Allauddin Khilji entrust the mission to conquer South?

- A Ulugha Khan
- B Malik Kafur
- C Khizra Khan
- D Shaji Malik

Answer: B

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Question 182

Mass number is the sum of:

- A Electrons and Protons
- B Protons and neutrons
- C Electron and neutrons
- D Only ptotons

Answer: B

**Question 183**

**When is Human Rights day celebrated?**

- A 12<sup>th</sup>
- B 9<sup>th</sup> Dec
- C 10<sup>th</sup> Dec
- D 10<sup>th</sup> Oct

**Answer: C**

**Question 184**

**Aggregate Monetary Resources is:**

- A M1
- B M2
- C M3
- D M4

**Answer: C**

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**Question 185**

**Which of the following species is locally extinct in India?**

- A Siberian Crane
- B The gyps Vulture
- C White Bellied Heron
- D Forest Owlet

**Answer: B**

**Question 186**

**Who was the first Deputy Prime Minister of India?**

- A Jawaharlal Nehru
- B Sardar Vallabhbhai Patel
- C Maulana Abul Kalam Azad
- D Gulzarilal Nanda

**Answer: B**

**Question 187**

**The resistance of an ideal voltmeter is;**

- A infinite
- B zero
- C high
- D low

**Answer: A**

**Explanation:**

**Resistance of an ideal voltmeter** is Infinite and that of an ammeter is zero.

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**Question 188**

The lowest temperature is recorded by:

- A Mercurial Thermometer
- B Alcohol thermometer
- C Maximum reading thermometer
- D Minimum reading thermometer

**Answer: B**

**Question 189**

In marine whales, the limbs are modified as;

- A Flappers
- B Grippers
- C Slippers
- D Flippers

**Answer: E**

**Question 190**

Which scientist wrote a book called "A Brief History of Time"?

- A Stephen Hawking
- B Pasteur
- C J L Baird
- D Edward Jenner

**Answer: A**

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**Question 191**

**ICMP is used for:**

- A Error reporting
- B Addressing
- C Forwarding
- D Multicasting

**Answer: A**

**Question 192**

**According to which Article, State Legislative Council can be created or abolished?**

- A Article 167
- B Article 168
- C Article 169
- D Article 170

**Answer: C**

**Question 193**

**An electronic path, that sends signals from one part of computer to another is;**

- A Logic Gate
- B Modem
- C Bus
- D Serial Port

**Answer: C**

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**Question 194**

**Breath analysers used by police to test drunken drivers works on the chemical basis of**

- A Acid-Base reactions
- B Precipitation reactions
- C Complexation reactions
- D Redox reactions

**Answer: A**

**Question 195**

**The Earth is nearest to the Sun on:**

- A 4 July
- B 23 September
- C 21 March
- D 3 January

**Answer: D**

**Question 196**

**Of the following rapeseed belongs to;**

- A Mustard
- B Coffee
- C Papper
- D Linseed

**Answer: A**

**Explanation:**

Rapeseed is a bright-yellow flowering member of the family Brassicaceae, cultivated mainly for its oil-rich seed, which naturally contains appreciable amounts of toxic erucic acid.

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**Question 197**

**The last dynasty of the Delhi Sultanate was the:**

- A Slave dynasty
- B Syed dynasty
- C Lodi dynasty
- D Khilji dynasty

**Answer: C**

**Question 198**

**Which of the following regulates the working of share market in India?**

- A MRTP Act
- B FERA
- C BIFR
- D SEBI

**Answer: D**

**Question 199**

**The first National Part of India is:**

- A Dachigam Wild Life Sanctuary
- B Jim corbett National Park
- C Simlipal National Park
- D Hazaribagh National Park

**Answer:** B

**Explanation:**

India's first national park was established in 1936 as Hailey National Park, now known as **Jim Corbett National Park**, Uttarakhand. By 1970, India only had five national parks.

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**Question 200**

The two components of an ecosystem are:

- A Plants and animals
- B Biotic and abiotic
- C Plants and lights
- D Weeds and micro-organisms

**Answer:** B

**Explanation:**

**Two main components** exist in an **ecosystem**: abiotic and biotic. The abiotic **components** of any **ecosystem** are the properties of the environment; the biotic **components** are the life forms that occupy a given **ecosystem**.

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