



## SSC MTS 21 September 2017 Shift 3

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

2	1	5
4	2	3
3	6	2
25	13	?

A 16

B 30

C 31

D 41

Answer: C

### Explanation:

In each column, the number at the end is the sum of 1 and product of first three numbers.

$$\text{Eg : } (2 \times 4 \times 3) + 1 = 24 + 1 = 25$$

$$\text{and } (1 \times 2 \times 6) + 1 = 12 + 1 = 13$$

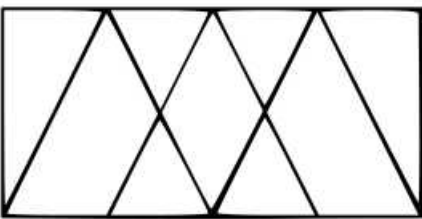
$$\text{Similarly, } (5 \times 3 \times 2) + 1 = 30 + 1 = 31$$

=> Ans - (C)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 2

How many triangles are there in the given figure ?



A 8

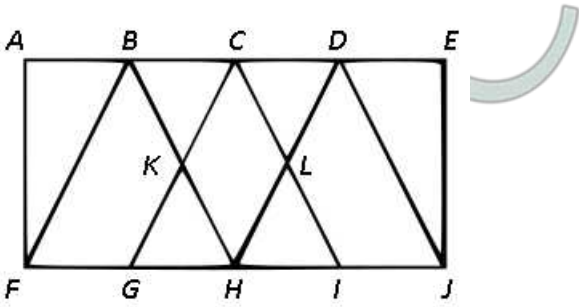
B 10

C 12

D 9

Answer: B

### Explanation:



Small triangles = ABF, BKC, GKH, CLD, HLI, DEJ

Big triangles = BFH, DHJ, GCI, BDH

Thus, total triangles = 10

=> Ans - (B)

### Question 3

From the given number series select the most appropriate series that follows some order

- A 00, 28, 49, 35, 21
- B 95, 67, 32, 56, 12
- C 00, 67, 78, 04, 76
- D 95, 11, 33, 55, 77

Answer: A

### Explanation:

here, we add multiple of 7 from the first digit to the last like

$$00 + 28 = 28$$

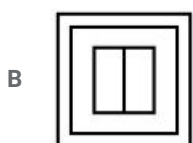
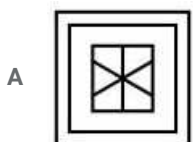
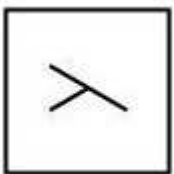
$$28 + 21 = 49$$

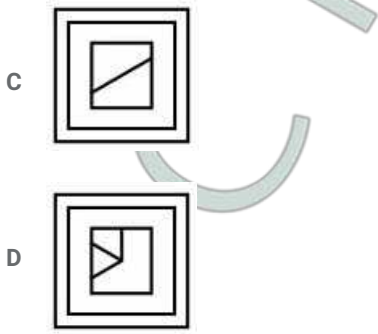
$$21 + 14 = 35$$

$$14 + 07 = 21$$

### Question 4

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

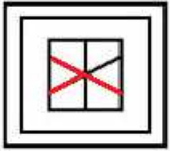




Answer: A

**Explanation:**

The above figure is represented by 'red' color and is hidden in :

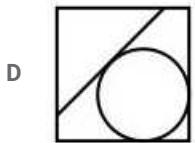
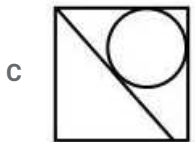
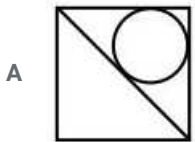


=> Ans - (A)

## SSC Stenographer Previous Papers (Download PDF)

**Question 5**

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



Answer: A

**Explanation:**

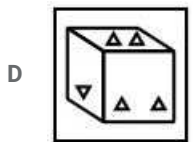
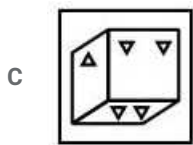
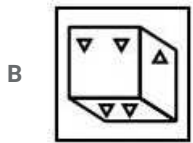
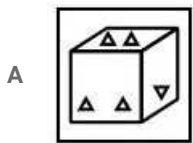
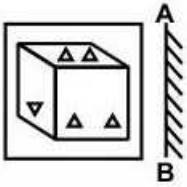
The question figure will be completed by :



=> Ans - (A)

**Question 6**

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



Answer: A

**Explanation:**

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

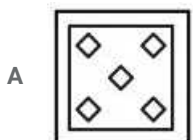
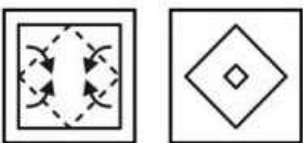
The middle two options are eliminated, since there is no bottom face of the cube.

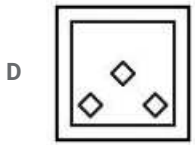
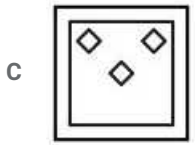
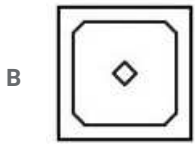
Also, in the question figure, the triangle at the left face will appear at right side, hence first option is the right image.

=> Ans - (A)

**Question 7**

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: B

## SSC GD Constable Previous Papers

### Question 8

If 'A' means '+', 'B' means '-', 'C' means '×' and 'D' means '÷', then which of the following equation is true?

A  $12 D 6 A 4 C 3 = 12$

B  $24 C 3 B 14 = 58$

C  $14 C 2 D 7 A 3 = 6$

D  $48 D 3 C 2 = 31$

Answer: B

### Explanation:

(A) :  $12 D 6 A 4 C 3 = 12$

$\equiv 12 \div 6 + 4 \times 3 = 12$

L.H.S. =  $2 + 12 = 14 \neq$  R.H.S.

(B) :  $24 C 3 B 14 = 58$

$\equiv 24 \times 3 - 14 = 58$

L.H.S. =  $72 - 14 = 58 =$  R.H.S.

$\Rightarrow$  Ans - (B)

### Question 9

If  $9 \$ 4 = 17$  and  $1 \$ 5 = 10$ , then  $3 \$ 6 = ?$

A 11

B 14

C 13

D 16

Answer: C

Explanation:

The pattern followed is that for the numbers of the form :  $a \$ b = (a + b) + 4$

Eg :-  $(9 + 4) + 4 = 17$

and  $(1 + 5) + 4 = 10$

Similarly,  $(3 + 6) + 4 = 13$

=> Ans - (C)

#### Question 10

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

1. Book
2. Bread
3. Butter
4. Bayern
5. Bulb

A 42135

B 41253

C 42153

D 41235

Answer: B

#### Explanation:

As per order of dictionary :

= Bayern -> Book -> Bread -> Bulb -> Butter

≡ 41253

=> Ans - (B)

## SSC MTS Previous Papers (DOWNLOAD PDF)

#### Question 11

In the following question, select the missing number from the given alternatives.

7, 26, ?, 124, 215, 342

A 63

B 65

C 66

D 67

Answer: A

#### Explanation:

The numbers are of the form  $(n)^3 - 1$  where  $n$  is a natural number.

$$(2)^3 - 1 = 7$$

$$(3)^3 - 1 = 26$$

$$(4)^3 - 1 = 63$$

$$(5)^3 - 1 = 124$$

$$(6)^3 - 1 = 215$$

$$(7)^3 - 1 = 342$$

=> Ans - (A)

#### Question 12

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

A, D, I, P, ?

A U

B R

C W

D Y

**Answer: D**

#### Explanation:

Consecutive odd numbers are added.

A (+3 letters) = D

D (+5 letters) = I

I (+7 letters) = P

P (+9 letters) = Y

=> Ans - (D)

#### Question 13

In the following question, select the odd word pair from the given alternatives.

A Oxygen : Gas

B Mercury : Gas

C Gold : Metal

D Uranium : Metal

**Answer: B**

#### Explanation:

The second is the property of the first. Oxygen is a gas but mercury is a liquid.

Gold and Uranium are metals.

Hence, **Mercury : Gas** is the odd one.

=> Ans - (B)

## SSC CGL Previous Papers (DOWNLOAD PDF)

#### Question 14

In the following question, select the odd number pair from the given alternatives.

A 4 : 18

B 7 : 51



C 9 : 83

D 6 : 34

**Answer:** D

**Explanation:**

The numbers are of the form =  $n : n^2 + 2$

(A) :  $(4)^2 + 2 = 18$

(B) :  $(7)^2 + 2 = 51$

(C) :  $(9)^2 + 2 = 83$

(D) :  $(6)^2 + 2 = 38 \neq 34$

=> Ans - (D)

**Question 15**

In the following question, select the odd letter from the given alternatives.

A U

B S

C Q

D G

**Answer:** A

**Explanation:**

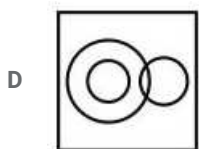
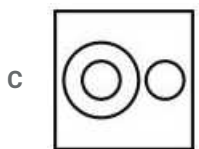
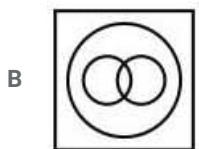
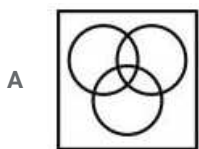
Among the given alphabets, only **U** is a vowel, hence it is the odd one out.

=> Ans - (A)

**Question 16**

Identify the diagram that best represents the relationship among the given classes.

Reptiles, Lizard, Lion

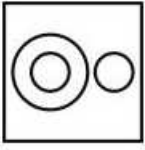


**Answer:** C

**Explanation:**

All lizards comes under the category of reptiles, but lions are mammals.

Thus, the venn diagram that best describes above relationship is :



=> Ans - (C)

## SSC CGL Free Mock Test (Latest Pattern)

**Question 17**

In the following question, select the related word from the given alternatives.

**Saw : Carpenter :: Axe : ?**

- A Ironsmith
- B Woodcutter
- C Cobbler
- D None of those

**Answer:** B

**Explanation:**

Expression = Saw : Carpenter :: Axe : ?

The main tool of a carpenter is a saw with which he does his job, similarly, a **woodcutter** uses an axe.

=> Ans - (B)

**Question 18**

In the following question, select the related number from the given alternatives.

**8 : 27 :: 64 : ?**

- A 190
- B 144
- C 125
- D 72

**Answer:** C

**Explanation:**

Expression = 8 : 27 :: 64 : ?

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

Eg :-  $(2)^3 : (2 + 1)^3 = 8 : 27$

Similarly,  $(4)^3 : (4 + 1)^3 = 64 : 125$

=> Ans - (C)

Question 19

In the following question, select the related letters from the given alternatives.

NP : HJ :: SY : ?

- A NT
- B MS
- C MT
- D NS

Answer: B

Explanation:

Expression = NP : HJ :: SY : ?

The pattern followed is that in the pair each letter of the first term is related to the second term as :

N (-6 letters) = H

P (-6 letters) = J

Similarly, S (-6 letters) = M, Y (-6 letters) = S

=> SY : **MS**

=> Ans - (B)

## SSC CHSL Free Mock Test (Latest Pattern)

Question 20

In the following question, select the word which cannot be formed using the letters of the given word.

BILLIONAIRE

- A RANT
- B BONE
- C RAIN
- D LINE

Answer: A

Explanation:

The word BILLIONAIRE does not contain any 'T', thus the term **Rant** cannot be formed.

=> Ans - (A)

Question 21

The ratio of present ages of Raman and Lamba is 7 : 5. After 6 years, age of Raman will be 48 years. What is the present age (in years) of Lamba?

- A 30
- B 25
- C 35
- D 40

Answer: A

**Explanation:**

It is given that 6 years hence, Raman's age = 48 years

=> Raman's present age =  $48 - 6 = 42$  years

Ratio of present ages of Raman and Lamba = 7 : 5

=> Lamba's present age =  $\frac{5}{7} \times 42 = 30$  years

=> Ans - (A)

**Question 22**

**Weight of Sona is four times that of Mona. Weight of Mona is 2.5 times of Hona. Weight of Hona is 1.5 times of Dhona. Weight of Dhona is 2.5 times of Rona. Who is the heaviest?**

A Mona

B Sona

C Hona

D Dhona

**Answer: B**

**Explanation:**

Let Rona's weight = 100 kg

Weight of Dhona is 2.5 times of Rona, => Dhona's weight =  $2.5 \times 100 = 250$  kg

Weight of Hona is 1.5 times of Dhona, => Hona's weight =  $1.5 \times 250 = 375$  kg

Weight of Mona is 2.5 times of Hona, => Mona's weight =  $2.5 \times 375 = 937.5$  kg

Weight of Sona is four times that of Mona, => Sona's weight =  $4 \times 937.5 = 3750$  kg

∴ **Sona** is the heaviest.

=> Ans - (B)

## SSC Stenographer Previous Papers (Latest Pattern)

**Question 23**

In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

**Statements:**

I. All books are pens.

II. All pens are tables.

**Conclusions:**

I. Some pens are tables.

II. All tables are books.

A Only conclusion (I) follows.

B Only conclusion (II) follows.

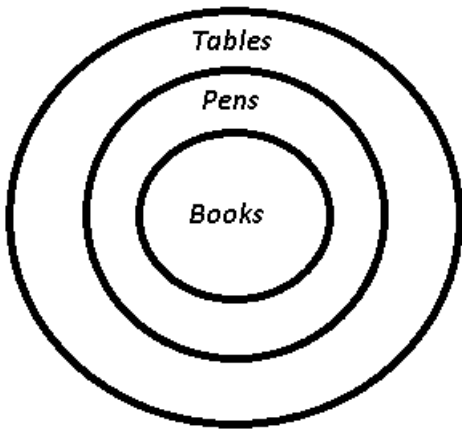
C Both conclusion follow.

D Neither conclusion (I) nor conclusion (II) follows.

**Answer: A**

**Explanation:**

The venn diagram for above statements is :



Conclusions:

- I. Some pens are tables = true
- II. All tables are books = false

Thus, only conclusion (I) follows.

=> Ans - (A)

**Question 24**

In a certain code language, "PAGE" is written as "QCJI". How is "CALL" written in that code language?

- A DCOP
- B DCOQ
- C DDOP
- D DCOR

**Answer:** A

**Explanation:**

"PAGE" is written as "QCJI"

The pattern followed is :

P	A	G	E
(+1)	(+2)	(+3)	(+4)
Q	C	J	I

Similarly, for CALL : **DCOP**

C	A	L	L
(+1)	(+2)	(+3)	(+4)
D	C	O	P

=> Ans - (A)

**Question 25**

In a certain code language, "GOAT" is written as "45" and "COAT" is written as "41". How is "BOAT" written in that code language?

- A 40
- B 41

C 42

D 43

Answer: A

**Explanation:**

"GOAT" is written as "45"

The pattern followed is that if we number the alphabets sequentially, i.e. A=1, B=2, C=3 and so on.

Also, '2' is added to the sum of the numbers.

Eg :- GOAT  $\equiv (7 + 15 + 1 + 20) + 2 = 45$

and COAT  $\equiv (3 + 15 + 1 + 20) + 2 = 41$

Similarly, BOAT  $\equiv (2 + 15 + 1 + 20) + 2 = 40$

=> Ans - (A)

## SSC GD Constable Free Mock Test (Latest Pattern)

### English

**Instructions**

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'.

**Question 26**

These five sisters (1)/ care for one other (2)/ like mothers. (3)/ No Error (4)/

A These five sisters

B care for one other

C like mothers.

D No Error

Answer: B

## SSC MTS Free Mock Test (Latest Pattern)

**Question 27**

Akshay kumar being a (1)/ good actor he is (2)/ presented with the National Award. (3)/ No Error (4)/

A Akshay kumar being a

B good actor he is

C presented with the National Award.

D No Error

Answer: B

**Instructions**

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.

**Question 28**

More than thirty years have now passed \_\_\_\_\_ I had my first flight.

- A since
- B after
- C while
- D when

**Answer: A**

**Question 29**

Raman has come up \_\_\_\_\_ a problem.

- A for
- B with
- C of
- D into

**Answer: B**

## SSC CPO Free Mock Test (Latest Pattern)

**Instructions**

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

**Question 30**

**Plight**

- A Blessing
- B Aid
- C Relief
- D Difficulty

**Answer: D**

**Question 31**

**Articulate**

- A Distinct
- B Unclear
- C Disconnect
- D Secret

**Answer: A**

**Question 32**

**Mandatory**

- A Optional
- B Voluntary
- C Essential
- D Unnecessary

**Answer: C**

**SSC MTS Free Preparation App**

**Instructions**

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

**Question 33**

**Negotiate**

- A Adjust
- B Consult
- C Debate
- D Remain

**Answer: D**

**Question 34**

**Distress**

- A Concern
- B Pleasure
- C Anxiety
- D Discomfort

**Answer: B**

**Question 35**

**Tolerate**

- A Accept
- B Bear
- C Permit
- D Disapprove

**Answer: D**



## 285 SSC Mocks - Just RS. 249

### Instructions

In the following question, out of the given four alternatives, select the alternative which best expresses the meaning of the Idiom/Phrase.

#### Question 36

##### Break the ice

- A Bad intention
- B To escape
- C To break the silence
- D To fail

Answer: C

#### Question 37

##### Cry in the wilderness

- A Upset the balance
- B An unrealistic demand
- C To defeated completely
- D A sudden shock

Answer: B

### Instructions

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

#### Question 38

(Upto) the time he wasn't here, we were not sure if he will actually come.

- A Till
- B To
- C Until
- D No improvement

Answer: A

## SSC Exam Free Videos (Youtube)

#### Question 39

As feared, (differences into) the families pose a hurdle.

- A difference into

- B difference as in
- C difference amongst
- D No improvement

**Answer: C**

**Instructions**

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

**Question 40**

**That which cannot be put out**

- A Illusion
- B Indigenous
- C Incentive
- D Inextinguishable

**Answer: D**

**Question 41**

**The system which is observed to do progress**

- A Violation
- B Impairing
- C Preservation
- D Reformism

**Answer: D**

**SSC Study Material**

**Instructions**

For the following questions answer them individually

**Question 42**

**In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.**

- A Beneficial
- B Benfical
- C Beneficial
- D Beneficle

**Answer: A**

**Question 43**

**In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.**

- A Continuous
- B Continous
- C Contenuous
- D Countionuous

Answer: A

#### Instructions

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

#### Question 44

##### Integrating diversity

P: governance which is firmly grounded

Q: in international human rights law

R: goes hand in hand with

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

Answer: B

## SSC Daily Practice Set

#### Question 45

##### Demographic pressure

P: wage rate below

Q: the subsistence level

R: cannot push the

- A QPR
- B RPQ
- C QRP
- D PQR

Answer: B

#### 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.

Books are our \_\_ (1)\_\_\_ friends. They are our guides. We can learn everything from them. The books contain all the great \_\_ (2)\_\_\_ of the world's leaders and we can learn them by reading the books. The books help us find \_\_ (3)\_\_\_ to our questions. The books never fail us. We should read as \_\_ (4)\_\_\_ books as we can. But all books are not good. So we should \_\_ (5)\_\_\_ only good books.

#### Question 46

Books are our \_\_\_\_ friends.

- A fake
- B original
- C real
- D majestic

**Answer: C**

**Question 47**

the great \_\_\_\_\_ of our world

- A feel
- B thoughts
- C idle
- D money

**Answer: B**

**SSC GK Free Tests**

**Question 48**

The books help us find \_\_\_\_\_ to

- A answers
- B solutions
- C relations
- D opinions

**Answer: A**

**Question 49**

\_\_\_\_\_ books as we can.

- A much
- B many
- C few
- D less

**Answer: B**

**Question 50**

So we should \_\_\_\_\_ only good books and read them.

- A remove
- B looking

- C steel
- D choose

Answer: D

## SSC GK Questions

### Quant

#### Instructions

For the following questions answer them individually

#### Question 51

Which smallest number must be subtracted from 400, so that the resulting number is completely divisible by 7?

- A 6
- B 1
- C 2
- D 4

Answer: B

#### Explanation:

On dividing 400 by 7, we get :  $400 = 7 \times 57 + 1$

Thus, the smallest number which should be subtracted from  $400 = 1$

Also,  $400 - 1 = 399$  is completely divisible by 7.

=> Ans - (B)

## Current Affairs Question and Answers (Download PDF)

#### Question 52

The sum of three consecutive even integers is 84. Which is the least integer among them?

- A 28
- B 30
- C 32
- D 26

Answer: D

#### Explanation:

Let the 3 consecutive even integers be  $(x - 2), (x), (x + 2)$

$$\text{Sum} = (x - 2) + (x) + (x + 2) = 84$$

$$\Rightarrow 3x = 84$$

$$\Rightarrow x = \frac{84}{3} = 28$$

$$\therefore \text{Least integer} = 28 - 2 = 26$$

=> Ans - (D)

**Question 53**

A number exceeds its  $\frac{1}{6}$  by 30. What is the number?

- A 120
- B 150
- C 36
- D 24

**Answer: C**

**Explanation:**

Let the number =  $6x$

According to ques,

$$\Rightarrow 6x - \left(\frac{1}{6} \times 6x\right) = 30$$

$$\Rightarrow 6x - x = 5x = 30$$

$$\Rightarrow x = \frac{30}{5} = 6$$

$$\therefore \text{Number} = 6 \times 6 = 36$$

$\Rightarrow$  Ans - (C)

**Question 54**

What is the digit in unit's place of the product  $51 \times 52 \times 53 \dots \dots 59$ ?

- A 0
- B 4
- C 3
- D 6

**Answer: A**

**Explanation:**

Expression :  $51 \times 52 \times 53 \dots \dots 59$

The above set of number contains 52 (or any even number) and 55 and the unit's digit of their product is 0.

Thus, the digit in unit's place of the product  $51 \times 52 \times 53 \dots \dots 59 = 0$

$\Rightarrow$  Ans - (A)

**Daily and Monthly Current Affairs (Download PDF)**

**Question 55**

What is the value of  $2^{3^2}$ ?

- A 64
- B 128
- C 512
- D 256

**Answer: C**

**Explanation:**

Expression :  $2^{3^2}$

$$= 2^9 = 512$$

=> Ans - (C)

**Question 56**

**How many numbers less than 200 are multiples of both 5 and 6?**

A 21

B 7

C 9

D 6

**Answer: D**

**Explanation:**

Numbers which are multiples of both 5 and 6 = Numbers which are multiples of L.C.M. (5,6) = 30

We know that  $30 \times 6 = 180 < 200$

Thus, numbers less than 200 that are multiples of 30 = 6

=> Ans - (D)

**Question 57**

**Working 10 hours a day, Aman can complete a piece of work in 18 days. How many hours a day should he work so as to finish the work in 15 days?**

A 10

B 12

C 16

D 18

**Answer: B**

**Explanation:**

Using the equation,  $D_1H_1 = D_2H_2$ , where  $D$  is the number of days and  $H$  is the number of hours

$$\Rightarrow (18 \times 10) = (15 \times h_2)$$

$$\Rightarrow h_2 = \frac{18 \times 10}{15}$$

$$\Rightarrow h_2 = 6 \times 2 = 12 \text{ hours}$$

=> Ans - (B)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

**Question 58**

**A can do a piece of work in 10 days and B in 12 days. With help of C, they finish the work in 4 days. In how many days C alone can do the same work?**

A 12

- B 15
- C 18
- D 24

Answer: B

**Explanation:**

Let total work is L.C.M. (10,12,4) = 60 units

A alone can complete a work in 10 days, => A's efficiency =  $\frac{60}{10} = 6$  units/day

Similarly B's efficiency =  $\frac{60}{12} = 5$  units/day

Now, (A+B+C)'s efficiency =  $\frac{60}{4} = 15$  units/day

=> C's efficiency =  $15 - (6 + 5) = 4$  units/day

∴ Days required by C alone to complete the work =  $\frac{60}{4} = 15$  days

=> Ans - (B)

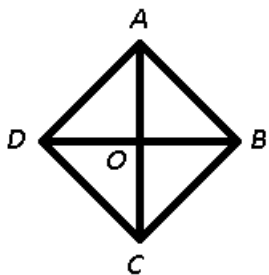
**Question 59**

The lengths of two diagonals of a rhombus are 24 cm and 32 cm. What is the side (in cm) of the rhombus?

- A 20
- B 40
- C  $20\sqrt{2}$
- D  $40\sqrt{2}$

Answer: A

**Explanation:**



Give : ABCD is a rhombus, AC = 24 cm and BD = 32 cm

To find : AB = ?

Solution : Diagonals of a rhombus bisect each other at right angle.

$$\Rightarrow OA = \frac{24}{2} = 12 \text{ cm and } OB = \frac{32}{2} = 16 \text{ cm}$$

Thus, in  $\triangle OAB$ ,

$$\Rightarrow (AB)^2 = (OA)^2 + (OB)^2$$

$$\Rightarrow (AB)^2 = (12)^2 + (16)^2$$

$$\Rightarrow (AB)^2 = 144 + 256 = 400$$

$$\Rightarrow AB = \sqrt{400} = 20 \text{ cm}$$

=> Ans - (A)



**Question 60**

The marked price of a chair is Rs 550 and a discount of 20% is given on it. What is the selling price (in Rs)?

- A 440
- B 430
- C 470
- D 390

**Answer:** A

**Explanation:**

Marked price = Rs. 550

Discount % = 20%

$$\Rightarrow \text{Selling price} = \frac{(100-20)}{100} \times 550$$

$$= 8 \times 55 = \text{Rs. } 440$$

$\Rightarrow$  Ans - (A)

## SSC Stenographer Previous Papers (Download PDF)

**Question 61**

The marked price of an article is Rs 960 and it is sold at a discount of Rs 192. What is the discount percentage?

- A 15
- B 20
- C 25
- D 30

**Answer:** B

**Explanation:**

Marked price = Rs. 960

Discount price = Rs. 192

$$\Rightarrow \text{Discount \%} = \frac{192}{960} \times 100$$

$$= 0.2 \times 100 = 20\%$$

$\Rightarrow$  Ans - (B)

**Question 62**

If  $A : B = 1 : 4$  and  $B : C = 2 : 3$ , then what is  $A : B : C$ ?

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

**Answer:** A

**Explanation:**

Given =  $A : B = 1 : 4$  and  $B : C = 2 : 3$

$$\Rightarrow \frac{A}{B} = \frac{1}{4} \text{---(i)}$$

$$\text{and } \frac{B}{C} = \frac{2}{3} \text{---(ii)}$$

Multiplying equation (ii) by '2', we get :  $\frac{B}{C} = \frac{4}{6}$

Now, the value of B is same in both equation,  $\Rightarrow A : B : C = 1 : 4 : 6$

$\Rightarrow$  Ans - (A)

**Question 63**

If  $\frac{x}{y} = \frac{2}{3}$ , then what is the ratio of  $(3x + 2y)$  and  $(3x - y)$  ?

A 4 : 1

B 3 : 1

C 2 : 1

D 4 : 3

**Answer: A**

**Explanation:**

Given :  $\frac{x}{y} = \frac{2}{3}$

Let  $x = 2$  and  $y = 3$

To find :  $\frac{(3x+2y)}{(3x-y)}$

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

$$= \frac{6+6}{6-3} = \frac{12}{3}$$

$= 4 : 1$

$\Rightarrow$  Ans - (A)

**SSC GD Constable Previous Papers**

**Question 64**

The average of 21 numbers is 12. The average of the first 11 numbers is 9 and the average of the last 11 numbers is 15. What is the value of the middle number?

A 10

B 11

C 12

D 13

**Answer: C**

**Explanation:**

Average of 21 numbers = 12

$\Rightarrow$  Sum of 21 numbers =  $21 \times 12 = 252$

Similarly, sum of first 11 numbers =  $11 \times 9 = 99$

Sum of last 11 numbers =  $11 \times 15 = 165$

$\therefore$  Value of the middle number =  $(99 + 165) - 252 = 264 - 252 = 12$

$\Rightarrow$  Ans - (C)

#### Question 65

If the rice is sold at Rs 56 per kg, there would be a 40% loss. To earn a profit of 20% what should be the price of rice (per kg)?

A 112

B 108

C 116

D 124

**Answer: A**

#### Explanation:

Selling price = Rs. 56

Loss % = 40%

$$\Rightarrow \text{Cost price} = \frac{56}{100-40} \times 100$$

$$= \frac{5600}{60} = \text{Rs. } \frac{280}{3}$$

$$\text{Now, to earn 20% profit, } \Rightarrow \text{Selling price} = \frac{280}{3} + \left( \frac{20}{100} \times \frac{280}{3} \right)$$

$$= \frac{280}{3} + \frac{56}{3} = \frac{336}{3} = \text{Rs. } 112$$

$\Rightarrow$  Ans - (A)

#### Question 66

If the profit is 20%, then what will be the ratio of cost price to selling price respectively?

A 4 : 5

B 5 : 6

C 2 : 5

D 3 : 4

**Answer: B**

#### Explanation:

Let C.P. = Rs.  $x$  and S.P. = Rs.  $y$

$$\text{Profit \%} = \frac{(S.P. - C.P.)}{C.P.} \times 100$$

$$\Rightarrow \frac{(y-x)}{x} \times 100 = 20$$

$$\Rightarrow \frac{(y-x)}{x} = \frac{20}{100} = \frac{1}{5}$$

$$\Rightarrow 5y - 5x = x$$

$$\Rightarrow 5y = x + 5x = 6x$$

$$\Rightarrow \frac{x}{y} = \frac{5}{6}$$

$\Rightarrow$  Ans - (B)

**Question 67**

In a school 60% of the students are girls. If number of boys is 480, then what is the total number of students in the school?

- A 1200
- B 840
- C 96
- D 1320

**Answer: A**

**Explanation:**

Let total number of students =  $100x$

$$\Rightarrow \text{Number of girls} = \frac{60}{100} \times 100x = 60x$$

$$\Rightarrow \text{Number of boys} = 100x - 60x = 40x$$

According to ques,  $\Rightarrow 40x = 480$

$$\Rightarrow x = \frac{480}{40} = 12$$

$\therefore$  Total number of students =  $100 \times 12 = 1200$

$\Rightarrow$  Ans - (A)

**Question 68**

If one-third of a number is 45, then what will be the 45% of that number?

- A 60.75
- B 58.25
- C 61.25
- D 70.75

**Answer: A**

**Explanation:**

Let number =  $x$

According to ques,  $\Rightarrow \frac{1}{3} \times x = 45$

$$\Rightarrow x = 45 \times 3 = 135$$

$$\therefore 45\% \text{ of } x = \frac{45}{100} \times 135$$

$$= \frac{9 \times 27}{4} = \frac{243}{4} = 60.75$$

$\Rightarrow$  Ans - (A)

**Question 69**

Speeds of a boat along the current and against the current are 14 km/hr and 7 km/hr respectively. What is the speed of boat (in km/hr) in still water?

- A 3.5
- B 7.5
- C 10.5

D 9.5

Answer: C

Explanation:

Downstream speed of boat = 14 km/hr

Upstream speed of boat = 7 km/hr

$$\begin{aligned} \Rightarrow \text{Speed of boat (in km/hr) in still water} &= \frac{1}{2} \times (14 + 7) \\ &= \frac{21}{2} = 10.5 \text{ km/hr} \end{aligned}$$

\(\Rightarrow\) Ans - (C)

## SSC CGL Previous Papers (DOWNLOAD PDF)

Question 70

A person goes from point N to P and comes back. His average speed for the whole journey is 60 km/hr. If his speed while going from N to P is 40 km/hr, then what will be the speed of the person (in km/hr) while coming back from P to N?

A 80

B 100

C 120

D 140

Answer: C

Explanation:

Speed of the person from point N to P = 40 km/hr

Let speed on return journey =  $s$  km/hr

Since, equal distances are covered, average speed = harmonic mean of both speeds =  $\frac{2xy}{x+y}$

$$\Rightarrow \frac{2 \times s \times 40}{s+40} = 60$$

$$\Rightarrow \frac{80s}{s+40} = 60$$

$$\Rightarrow \frac{4s}{s+40} = 3$$

$$\Rightarrow 4s = 3s + 120$$

$$\Rightarrow 4s - 3s = s = 120$$

\(\therefore\) Speed of the person (in km/hr) while coming back from P to N = 120 km/hr

\(\Rightarrow\) Ans - (C)

Question 71

A certain principal is invested in a scheme of compound interest. The amount obtained after 1 year is Rs 2400 and the amount obtained after 2 years is Rs 2880. What is the rate of interest (in percentage)?

A 20

B 15

C 25

D 10

Answer: A

**Explanation:**

Amount obtained after 1 year = Rs. 2400

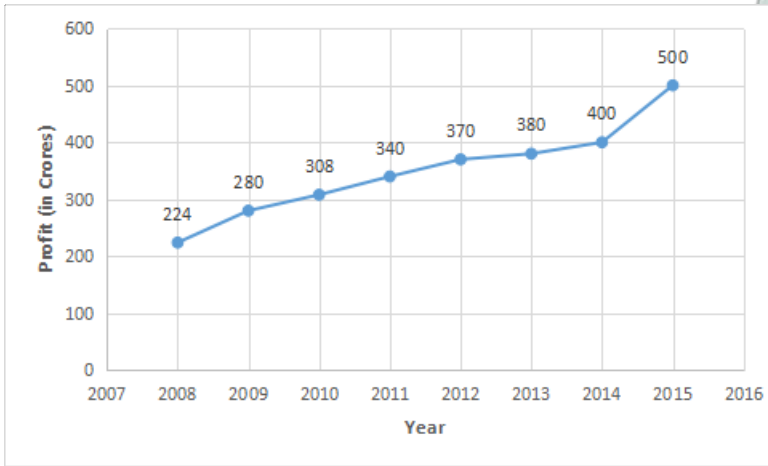
Amount obtained after 2 years = Rs. 2880

$$\Rightarrow \text{Rate of interest} = \frac{(2880 - 2400)}{2400} \times 100$$
$$= \frac{480}{2400} = 20\%$$

$\Rightarrow$  Ans - (A)

**Instructions**

The line chart given below shows the profit (in crores) of a company for the years 2008 to 2015.



**Question 72**

In how many years from 2009 to 2015 the increase in profit with respect to previous years is more than 30 crores?

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

**Answer:** A

**Explanation:**

In the years : 2009, 2011 and 2015 the increase in profit with respect to previous years is respectively 56, 32 and 100 crores, i.e. more than 30 crores.

$\Rightarrow$  Ans - (A)

**SSC CGL Free Mock Test (Latest Pattern)**

**Question 73**

What is the percentage increase in profit in the year 2010 in comparison to the previous year?

- A 20
- B 12
- C 10
- D 25

**Answer:** C

**Explanation:**

Profit (in crores) in 2009 = 280

Profit (in crores) in 2010 = 308

$$\Rightarrow \text{Required \% increase} = \frac{(308-280)}{280} \times 100$$
$$= \frac{28}{280} = 10\%$$

=> Ans - (C)

**Question 74**

The profit in 2015 is what percent of the profit in 2014?

- A 75
- B 115
- C 135
- D 125

**Answer: D**

**Explanation:**

Profit (in crores) in 2015 = 500

Profit (in crores) in 2014 = 400

$$\Rightarrow \text{Required \%} = \frac{500}{400} \times 100$$
$$= \frac{500}{4} = 125\%$$

=> Ans - (D)

**Question 75**

What is the average profit per year from 2011 to 2015?

- A 398
- B 406
- C 384
- D 387

**Answer: A**

**Explanation:**

Total profits (in crores) per year from 2011 to 2015

$$= 340 + 370 + 380 + 400 + 500 = 1990$$

$$\Rightarrow \text{Average profit for 5 years} = \frac{1990}{5} = 398$$

=> Ans - (A)

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**General Awareness**

**Instructions**

For the following questions answer them individually

**Question 76**

Micro-economics is also called \_\_\_\_\_

- A Profit theory
- B Loss theory
- C Price theory
- D Expenditure theory

**Answer: A**

**SSC Stenographer Previous Papers (Latest Pattern)**

**Question 77**

Transport comes under which sector of economic growth?

- A Secondary sector
- B Primary sector
- C Tertiary sector
- D Quaternary sector

**Answer: C**

**Question 78**

Which among the following refers the existence of more than one level of Government in the Country?

- A Democracy
- B Federalism
- C Monarchy
- D Bicameral

**Answer: B**

**Question 79**

Which among the following Amendment Act is also known as 'Mini Constitution'?

- A 2nd Amendment
- B 42nd Amendment
- C 48th Amendment
- D 57th Amendment

**Answer: B**

**SSC GD Constable Free Mock Test (Latest Pattern)**



Question 80

In which language did Vardhaman Mahavira taught?

- A Prakrit
- B Hindi
- C Pali
- D Sanskrit

Answer: A

Question 81

During which period Non-Cooperation Movement gained momentum?

- A 1910-1912
- B 1915-1917
- C 1921-1922
- D 1930-1932

Answer: C

Question 82

The moon that we see in the sky is a \_\_\_\_.

- A Planet
- B Star
- C Sun
- D Satellite

Answer: D

## SSC MTS Free Mock Test (Latest Pattern)

Question 83

The world's longest river the Nile, flows through which continent?

- A South America
- B Africa
- C North America
- D Europe

Answer: B

Question 84

Which category of compound is most concentrated energy source?

- A Fats
- B Starch
- C Proteins
- D Vitamins

**Answer: A**

**Question 85**

What is main root of plants called as?

- A Tap root
- B Lateral roots
- C Fibrous roots
- D Anchor

**Answer: A**

**SSC CPO Free Mock Test (Latest Pattern)**

**Question 86**

The exchange of materials between blood and interstitial fluid occurs only at the \_\_\_\_.

- A Veins
- B Capillaries
- C Arteries
- D Arterioles

**Answer: B**

**Question 87**

The commonly used thermometric substance is \_\_\_\_.

- A mineral oil
- B Alcohol
- C Mercury
- D Petrol

**Answer: C**

**Question 88**

Heat flows as a result of difference of \_\_\_\_.

- A Temperature
- B Density

- C mass
- D Volume

Answer: A

## SSC MTS Free Preparation App

### Question 89

What is the full form of GUI?

- A Graphical Universal Interface
- B Graphical User Interface
- C Graphical User Integration
- D Graphical Universal Integration

Answer: B

### Question 90

A proton is identical to \_\_\_\_.

- A the nucleus of helium
- B the nucleus of a hydrogen atom
- C an alpha-particle
- D a beta particle

Answer: D

### Question 91

An  $\alpha$  particle is \_\_\_\_.

- A A hydrogen molecule
- B A helium nucleus
- C An atom of hydrogen
- D A proton

Answer: B

## 285 SSC Mocks - Just RS. 249

### Question 92

What is the process of waste water treatment is commonly known?

- A Waste water management
- B Cleaning of water
- C Sewage treatment

D Decontamination

Answer: C

Question 93

When was "Pradhan Mantri Mudra Yojana" launched?

A September 2014

B November 2014

C April 2015

D January 2016

Answer: C

Question 94

Who among the following discovered electron?

A J.J Thomson

B Max Born

C Antoine Lavoisier

D Mendeleef

Answer: A

## SSC Exam Free Videos (Youtube)

Question 95

Which team has won the 2016 -17 Ranji Trophy?

A Mumbai

B Gujarat

C Karnataka

D Tamil Nadu

Answer: B

Question 96

Madhubani artwork started in which state of India?

A Bihar

B Uttar Pradesh

C Rajasthan

D Gujrat

Answer: A

**Question 97**

**Who is the recipient of Kala Ratna Award 2017?**

- A Anupam Kher
- B Om Puri
- C Naseeruddin Shah
- D Prahlaj Nihalani

**Answer: A**

**SSC Study Material**

**Question 98**

**Who is the author of the book named "Making India Awesome"?**

- A Jairam Ramesh
- B Tarun Khanna
- C Chetan Bhagat
- D Amitav Ghosh

**Answer: C**

**Question 99**

**Which country has established new 2+2 ministerial dialogue with India similar to India Japan 2+2 dialogue?**

- A Britain
- B Australia
- C USA
- D Israel

**Answer: C**

**Question 100**

**Which neighbouring country of India lies to the south of Lakshadweep islands?**

- A Maldives
- B Bangladesh
- C Myanmar
- D Indonesia

**Answer: A**

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