



## SSC MTS 17 March 2013 Shift 1

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## Reasoning

### Instructions

For the following questions answer them individually

### Question 1

**Astronomy: Star::Geology:?**

- A Sky
- B Geometry
- C Science
- D Earth

**Answer: D**

### Explanation:

Expression = Astronomy: Star::Geology:?

Astronomy is the study of stars, similarly Geology is the study of **Earth**.

=> Ans - (D)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

### Question 2

**Up:Down::Back:?**

- A Left
- B Deep
- C Front
- D Right

**Answer: C**

### Explanation:

Expression = Up:Down::Back:?

The given pairs are antonyms, i.e. up is the opposite of down, similarly opposite of back is **front**.

=> Ans - (C)

### Question 3

**If  $4 \times 2 \times 6 = 1626$ ,  $3 \times 7 \times 4 = 974$ , then  $5 \times 6 \times 8 = ?$**

- A 3658
- B 2568
- C 5664
- D 6456

**Answer: B**

### Explanation:

The pattern followed is that for the numbers:  $a \times b \times c = a^2bc$

Eg :-  $4 \times 2 \times 6 = (4)^2 26 = 1626$

and  $3 \times 7 \times 4 = (3)^2 74 = 974$

Similarly,  $5 \times 6 \times 8 = (5)^2 68 = 2568$

=> Ans - (B)

**Instructions**

In the following question, find the odd word from the given alternatives.

**Question 4**

A Madam

B Animal

C Othello

D Noun

**Answer: D**

**Explanation:**

Madam, Othello and animal are all different nouns, hence **noun** is the odd one out.

=> Ans - (D)

**SSC Stenographer Previous Papers (Download PDF)**

**Question 5**

A 5:25

B 8:64

C 7:49

D 6:30

**Answer: D**

**Explanation:**

(A) :  $(5)^2 = 25$

(B) :  $(8)^2 = 64$

(C) :  $(7)^2 = 49$

(D) :  $(6)^2 = 36 \neq 30$

=> Ans - (D)

**Question 6**

A 245

B 443

C 633

D 821

**Answer: C**

**Explanation:**

The sum of digits of each number is 11

(A) :  $2 + 4 + 5 = 11$

(B) :  $4 + 4 + 3 = 11$

(C) :  $6 + 3 + 3 = 12 \neq 11$

(D) :  $8 + 2 + 1 = 11$

=> Ans - (C)

**Question 7**

A Green gram

B Corn

C Barley

D Wheat

**Answer:** A

**Explanation:**

Except green gram all others are cereals

## SSC GD Constable Previous Papers

**Instructions**

For the following questions answer them individually

**Question 8**

Which group of letters when sequentially placed at the gaps in the given letter series shall complete it?

A E \_ F C G \_ H \_ I F J \_ K

A bdeg

B debg

C eegb

D bcad

**Answer:** A

**Explanation:**

in the alphabetical series that is A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

after every letter the third letter to it is placed before it i.e

A E B F C G D H E I F J G K

making option A the correct answer

**Question 9**

Arrange the following words as per order in dictionary.

1. Obscure

2. Objective

3. Objection

4. Obligation

5. Oblivion

A 3,2,4,5,1

B 3,2,5,4,1

C 3,2,5,1,4

D 5,2,1,3,4

**Answer: A**

**Explanation:**

As per the order of dictionary,

= Objection -> Objective -> Obligation -> Oblivion -> Obscure

≡ 3,2,4,5,1

=> Ans - (A)

**Question 10**

15,23,31,39,\_\_,55,63

A 45

B 47

C 46

D 44

**Answer: B**

**Explanation:**

The pattern followed is :

$$15 + 8 = 23$$

$$23 + 8 = 31$$

$$31 + 8 = 39$$

$$39 + 8 = 47$$

$$47 + 8 = 55$$

$$55 + 8 = 63$$

=> Ans - (B)

## SSC MTS Previous Papers (DOWNLOAD PDF)

**Question 11**

2, 3.5, 5, 6.5, 8, \_\_\_?

A 9.0

B 9.5

C 10.5

D 11.0

**Answer: B**

**Explanation:**

The pattern followed here is  $(n + 1.5)$

$$2 + 1.5 = 3.5,$$

- 3.5 + 1.5 = 5,
- 5 + 1.5 = 6.5,
- 6.5 + 1.5 = 8,
- 8 + 1.5 = 9.5

Hence, option B is the correct answer.

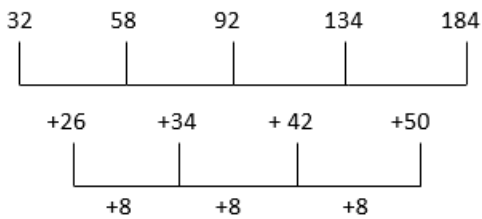
**Question 12**

32,58,92,134,\_\_\_?

- A 169
- B 184
- C 194
- D 156

**Answer: B**

**Explanation:**



Hence, option B is the correct answer.

**Question 13**

From the given alternative words, select the word which cannot be formed using the letters of the given word: INTERROGATE (multiple use of letters are allowed)

- A GATE
- B SIGNATURE
- C INTERN
- D TERROR

**Answer: B**

**Explanation:**

The word 'INTERROGATE' does not contain any 'S', thus the word **Signature** cannot be formed.

=> Ans - (B)

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

**Question 14**

If PAINT is coded as 74128 and EXCEL is coded as 93596.how is ACCEPT coded?

- A 459578
- B 457958

C 459758

D 455978

Answer: D

Explanation:

P - 7

A - 4

I - 1

N - 2

T - 8

E - 9

X - 3

C - 5

E - 9

L - 6

The codes for each letter is given :

A -> 4

C -> 5

C -> 5

E -> 9

P -> 7

T -> 8

=> ACCEPT : 455978

=> Ans - (D)

Question 15

If '+' means ' $\div$ ', 'x' means '+', '-' means 'x' and ' $\div$ ' means '-' then which of the following equations is correct ?

A  $36 + 6 - 3 \times 2 = 20$

B  $36 \times 6 + 3 - 2 < 20$

C  $36 \times 6 + 3 \times 2 < 20$

D  $36 + 6 \times 3 + 2 = 20$

Answer: A

Explanation:

(A) :  $36 + 6 - 3 \times 2 = 20$

$\equiv 36 \div 6 \times 3 + 2 = 20$

L.H.S. =  $(\frac{36}{6} \times 3) + 2$

=  $(6 \times 3) + 2 = 20 = \text{R.H.S.}$

=> Ans - (A)

Question 16

A father is 5 times as old as his son. His son is 6 year old. After how many years, will the father be 4 times as old as his son ?

A 2 years

B 5 years

C 6 years

D 4 years



Answer: A

**Explanation:**

Son's age = 6 years

=> Father's age =  $5 \times 6 = 30$  years

Let after  $x$  years, father will be four times as old as his son.

$$\Rightarrow (30 + x) = 4(6 + x)$$

$$\Rightarrow 30 + x = 24 + 4x$$

$$\Rightarrow 4x - x = 30 - 24$$

$$\Rightarrow 3x = 6$$

$$\Rightarrow x = \frac{6}{3} = 2$$

∴ After **2 years**, father will be four times as old as his son.

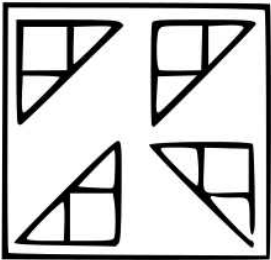
=> Ans - (A)

## SSC CGL Free Mock Test (Latest Pattern)

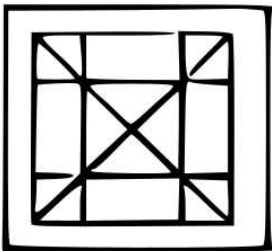
**Instructions**

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

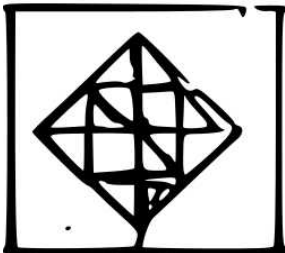
**Question 17**



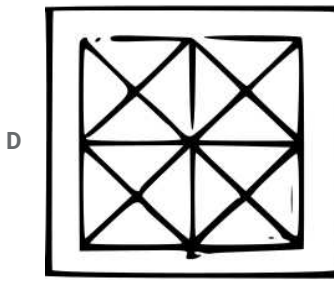
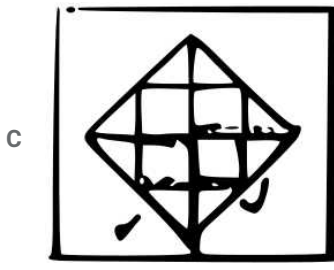
A



B



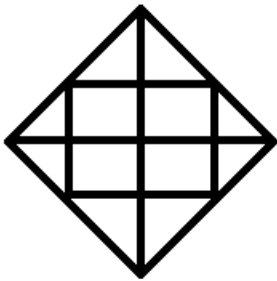




Answer: C

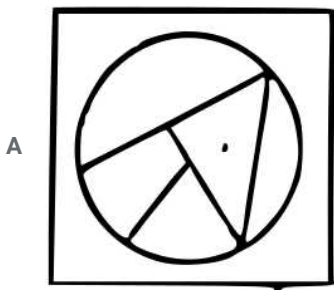
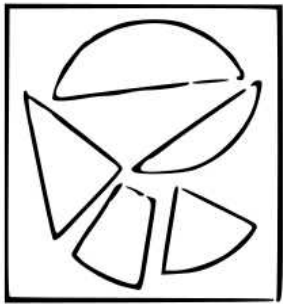
**Explanation:**

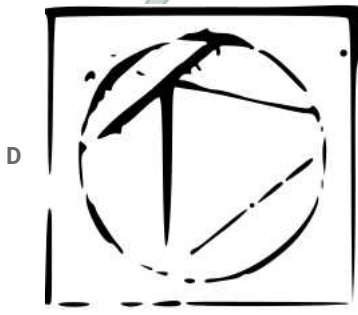
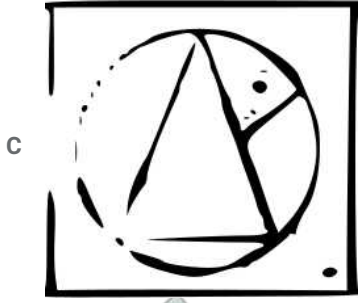
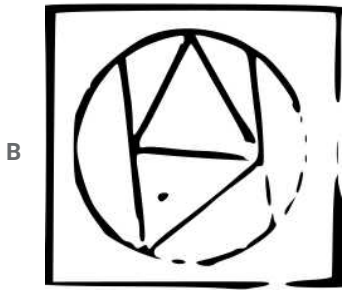
If we join the cut-pieces given above, the figure obtained will be :



=> Ans - (C)

**Question 18**



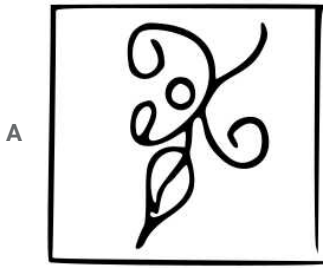


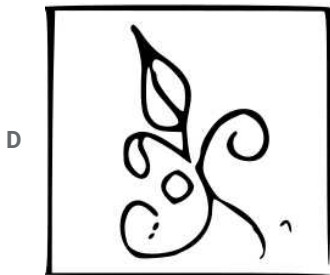
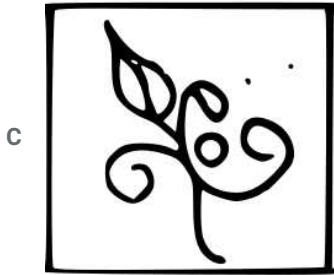
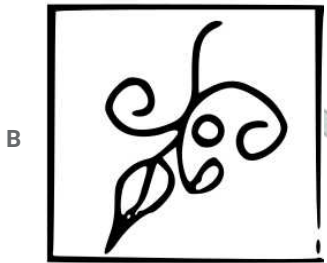
Answer: A

**Instructions**

In question no. 19 and 20, a mirror is placed on line MN. Then which of the answer figures is the correct image of the given figures ?

**Question 19**





Answer: D

**Explanation:**

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

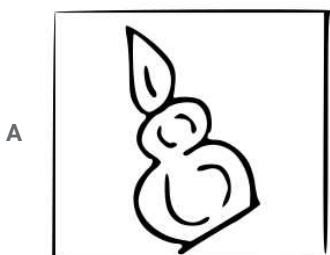
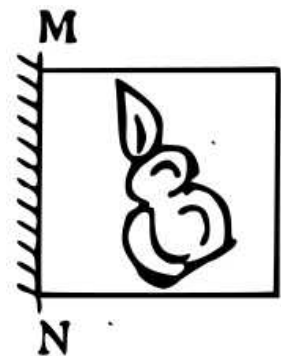
So the leaf pointing top right will now be facing top left, thus the first two options will be eliminated.

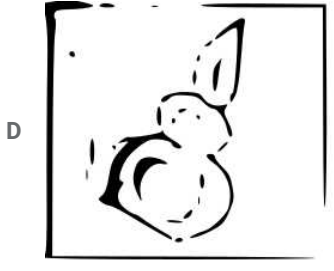
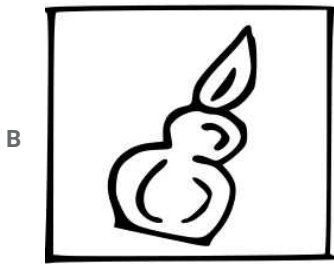
Also, in the question figure, the circle at the middle right side will appear at left side, hence fourth option is the right image.

=> Ans - (D)

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

Question 20





Answer: D

**Explanation:**

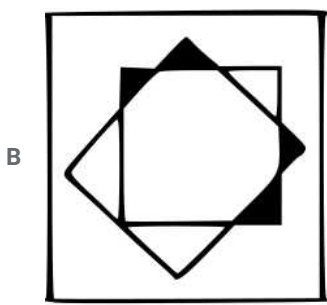
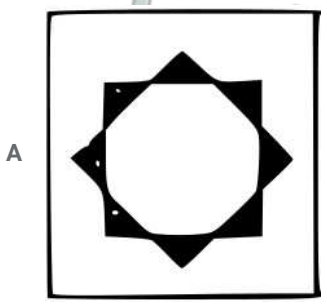
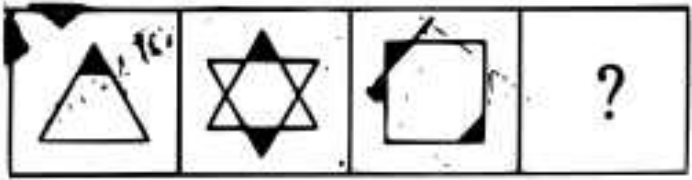
Figure in option D is the mirror image of given figure.

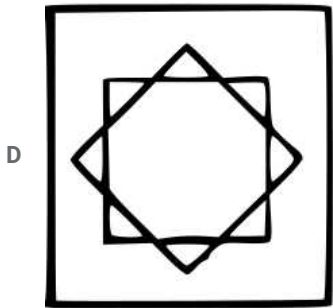
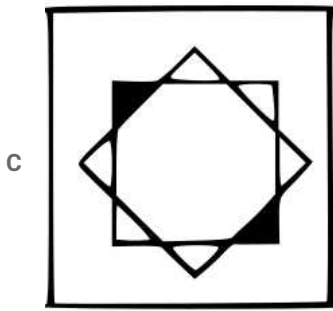
**Instructions**

For the following questions answer them individually

**Question 21**

Find the missing figure of the series from the given response.



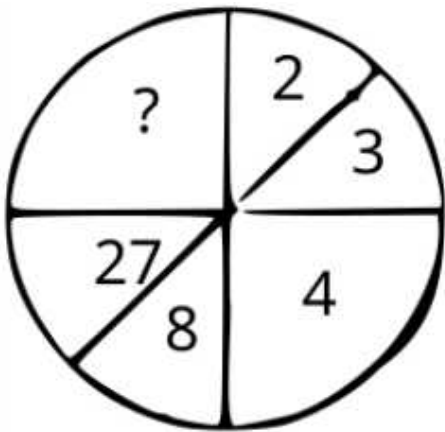


E None of these

Answer: E

Question 22

Select the missing number from the given responses.



A 56

B 49

C 45

D 64

Answer: D

**Explanation:**

The opposite numbers are cubes of the numbers i.e

$$2^3 = 8$$

$$3^3 = 27$$

similarly,

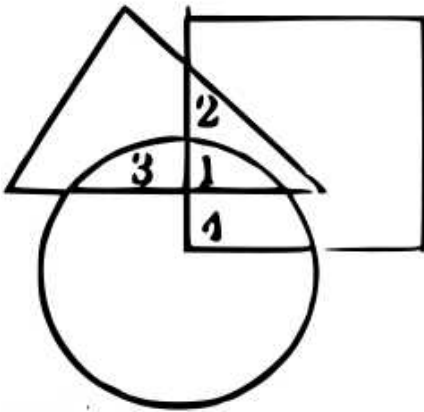
$$4^3 = 64$$

hence the correct answers is option D

## SSC Stenographer Previous Papers (Latest Pattern)

Question 23

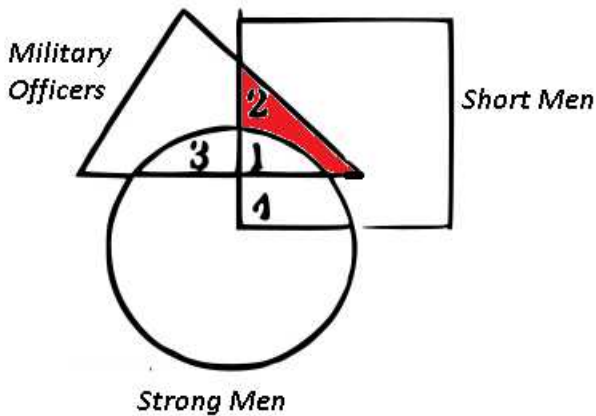
In the given diagram, Circle represents strong men, Square represents short men and Triangle represents military officers. Which region represents military officers who are short but not strong ?



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

Answer: A

Explanation:

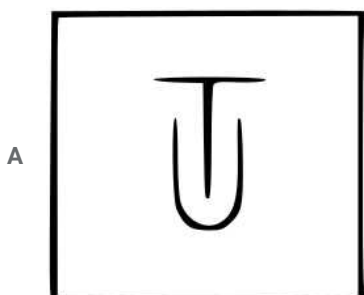


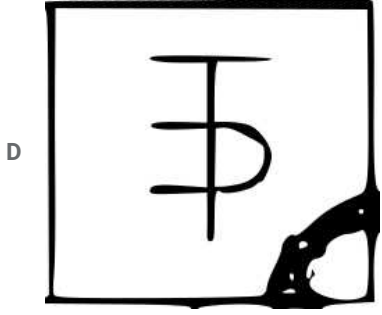
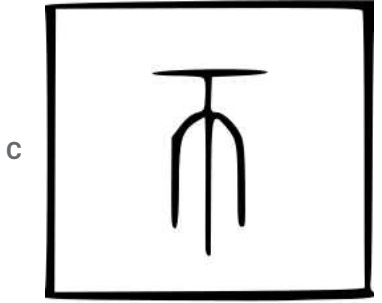
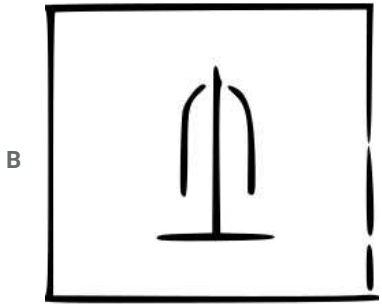
Military officers who are short but not strong is represented by = 2

=> Ans - (A)

Question 24

Select the figure which is different from the rest.





Answer: D

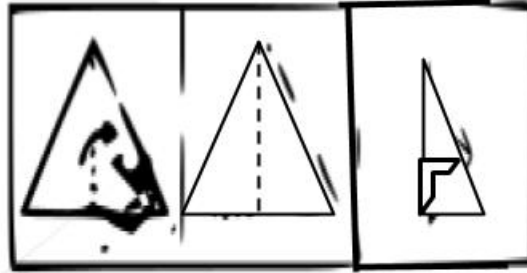
**Explanation:**

The last figure is different from the rest, as the curve is horizontal and there is an arc at the bottom right area of the square.

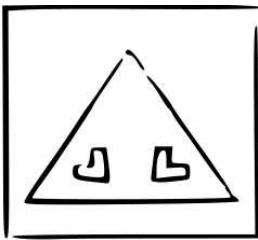
=> Ans - (D)

Question 25

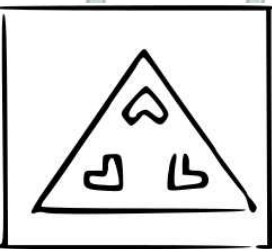
A triangular piece of paper is folded and cut as shown below, Find out from the answer figures, how it will appear when opened



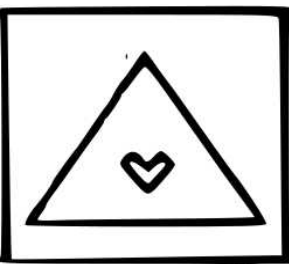
A



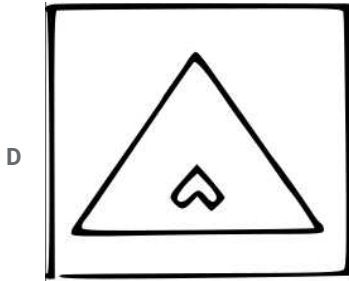
B



C







Answer: D

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

### English

#### Instructions

For the following questions answer them individually

#### Question 26

The new government tooj\_\_\_\_\_last year.

- A out
- B after
- C over
- D upon

Answer: E

## SSC MTS Free Mock Test (Latest Pattern)

#### Question 27

Mohan's career has taken some\_\_\_\_\_twists and turns.

- A incentive
- B interesting
- C interactive
- D intuitive

Answer: E

#### Question 28

The bus\_\_\_\_fifty passengers fell\_\_\_\_the river.

- A with;into
- B for;upon
- C over;on
- D of;at

Answer: E

Question 29

It is raining\_\_\_\_. Do not go out.

- A heavily
- B fast
- C soundly
- D strongly

Answer: E

## SSC CPO Free Mock Test (Latest Pattern)

Question 30

She tries to adjust\_\_\_\_\_her relations.

- A for
- B at
- C so
- D with

Answer: E

Question 31

She was remarkably\_\_\_\_\_in singing and dancing.

- A accomplished
- B conducive
- C fluctuating
- D cooperative

Answer: E

Question 32

Sheila gained an advantage\_\_\_\_\_me.

- A upon
- B from
- C on
- D over

Answer: E

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Question 33

Take this medicine regularly and you will get rid\_\_\_\_\_this disease.

- A at
- B from
- C of
- D over

Answer: E

Question 34

Statistics\_\_\_\_\_always my worst subject.

- A are
- B were
- C is
- D have

Answer: E

Question 35

When she retired, she handed\_\_\_\_\_the charge to the Vice-President.

- A over
- B out
- C across
- D off

Answer: E

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Question 36

Barbaric

- A Thorny
- B Uncivilized
- C Premeditated
- D Barber's

Answer: E

Question 37

Hurdle

- A Suspicion
- B Throw
- C Opposition
- D Obstacle

**Answer: E**

**Question 38**

**Deter**

- A To hinder
- B To neglect
- C To Disapprove
- D To differ

**Answer: E**

**SSC Exam Free Videos (Youtube)**

**Question 39**

**indolent**

- A Solvent
- B Diligent
- C Malvolent
- D Brilliant

**Answer: E**

**Question 40**

**Coherent**

- A Distorted
- B Disorganized
- C Inept
- D Carefree

**Answer: E**

**Question 41**

**Brutal**

- A Adamant
- B Humane

C Fearless

D Criminal

Answer: E

## SSC Study Material

### Question 42

The man changed colours when I questioned him on the allocation of funds.

A turned pale

B got numbed

C turned happy

D got motivated

Answer: A

### Question 43

We cannot depend on him for this assignment as it need careful handling and he is like a bull in a china shop.

A a felicitous person

B a clumsy person

C a tactful person

D a no-nonsense person

Answer: B

### Question 44

The mother always insists on keeping the house spick and span.

A open

B locked

C safe

D Tidy

Answer: D

## SSC Daily Practice Set

### Question 45

On receiving his appointment letter, Ravi treated us with a sumptuous meal.

A treated us to

B treated us for

C treated us by

D No improvement

Answer: A

#### Instructions

Long ago in Mounnelin there lived an fenrei growing old. One day, he sano gram in the street. Upset at being rennin led that someday, he too, would ago, he ordered all the old people to leave his land.

One day, a violent storm iswept, the kingdom. Nothing was safe from its fury. It . • roared into the palace and blew away the emperor's belongings, including his priceless golden pitcher. \*hen the storm ended, the emperor ordered that dm pitcher ho found and brought back to him. People went in search of the pitcher. They saw it in a lake nairliy. But no matter who ... • tried, no one could getia grip on the pitcher. All they, got was a handful of water. Yet it coulthe plainluae•glittering and just below the waters surface

#### Question 46

The emperor's orders were that all the

A children should leave his land

B old men should leave his land

C old men should live in his land

D young men should stay in his land

Answer: E

#### Question 47

What did the people who went to bring the pitcher get?

A Nothing at all

B A handful of water

C a handful of air

D The pitcher's handle

Answer: E

## SSC GK Free Tests

#### Question 48

The people saw the golden pitcher

A in a river nearby

B in alake nearby

C in a pit nearby

D inside the palace

Answer: E

#### Question 49

the emperor feared

- A getting old
- B getting young
- C getting weak
- D getting ill

Answer: E

**Question 50**

The emperor was upset to see the old man because

- A it reminded him of his grandfather
- B it reminded him that he might fall ill
- C it reminded him that he would grow old too
- D it reminded him that he had to colour his hair

Answer: E

**SSC GK Questions**

**Quant**

**Instructions**

For the following questions answer them individually

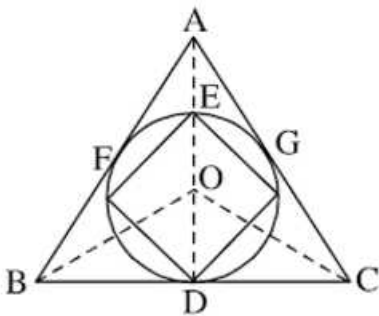
**Question 51**

A circle is inscribed in an equilateral triangle and a square is inscribed in that circle. The ratio of the areas of the triangle and square is

- A  $\sqrt{3} : 1$
- B  $\sqrt{3} : 4$
- C  $\sqrt{3} : 8$
- D  $\sqrt{3} : 2$

Answer: D

**Explanation:**



ABC is an equilateral triangle with side  $AB=a$ . AO, BO and CO are the angle bisectors of  $\angle A$ ,  $\angle B$  and  $\angle C$  respectively. O is the centre of the circle and let radius of circle =  $r$  and side of square =  $s$

Also, we know that the angle bisector from the vertex of an equilateral triangle is the perpendicular bisector of the opposite side.

=> AD is the perpendicular bisector of BC.

$$\Rightarrow \angle B = \frac{1}{2} \angle OBD = \frac{1}{2} \times 60^\circ = 30^\circ$$

Now, in  $\triangle OBD$ ,

$$\Rightarrow \tan(30^\circ) = \frac{OD}{BD} = \frac{r}{\frac{a}{2}}$$

$$\Rightarrow r = \frac{1}{\sqrt{3}} \times \frac{a}{2} = \frac{a}{2\sqrt{3}}$$

Now, in right  $\triangle EDG$ , using Pythagoras theorem

$$\Rightarrow (ED)^2 = (EG)^2 + (GD)^2$$

$$\Rightarrow (2r)^2 = (s)^2 + (s)^2$$

$$\Rightarrow 4r^2 = 2s^2$$

$$\Rightarrow s^2 = 2 \times \left(\frac{a}{2\sqrt{3}}\right)^2$$

$$\Rightarrow s^2 = \frac{a^2}{6}$$

$\therefore$  ar( $\triangle ABC$ ) : ar(DEF)

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

$$= \left(\frac{\sqrt{3}}{4}a^2\right) : \left(\frac{a^2}{6}\right)$$

$$= 3\sqrt{3} : 2$$

=> Ans - (D)

## Current Affairs Question and Answers (Download PDF)

### Question 52

The simplified value of  $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$  is

A 4

B 3

C 2

D 6

Answer: C

Explanation:

$$\text{Expression : } \frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$$

$$= \frac{4\sqrt{2} + 4\sqrt{3}}{2\sqrt{2} + 2\sqrt{3}}$$

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

=> Ans - (C)

### Question 53

$\sqrt{\frac{9.5 \times 0.085}{0.0017 \times 0.19}}$  equals

A 5

B 50

C 500

D 0.05

Answer: B

Explanation:



Expression :  $\sqrt{\frac{9.5 \times 0.085}{0.0017 \times 0.19}}$   
 $= \sqrt{\frac{95}{10} \times \frac{85}{1000} \times \frac{10000}{17} \times \frac{100}{19}}$   
 $= \sqrt{5 \times 5 \times 100}$   
 $= 5 \times 10 = 50$   
 $\Rightarrow$  Ans - (B)

**Question 54**

Two pipes A and B can fill a tank in 6 hours and 4 hours respectively. If they are opened on alternate hours and if pipe A is opened first, then the tank shall be fill in

- A  $4\frac{1}{2}$  hrs
- B 5 hrs
- C  $5\frac{1}{2}$  hrs
- D 6 hrs

**Answer: B**

**Explanation:**

Let total capacity of tank is L.C.M. (6,4) = 12 units

A alone can fill the tank in 6 hours,  $\Rightarrow$  A's efficiency =  $\frac{12}{6} = 2$  units/hr

Similarly B's efficiency =  $\frac{12}{4} = 3$  units/hr

Now, (A+B)'s 2 hour's work (A in first hour and B in second) =  $2+3=5$  units

$\Rightarrow$  In 4 hours, tank filled =  $5 \times 2 = 10$  units

$\Rightarrow$  Remaining part =  $12 - 10 = 2$  units, which will be filled by A in the next complete hour.

$\therefore$  Total time =  $4 + 1 = 5$  hours

$\Rightarrow$  Ans - (B)

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

**Question 55**

A,B and C can do a piece of work in 10,12 and 15 days respectively. A leaves 5 days before the completion of the work and B leaves 2 days after A. The whole work lasts for

- A 7 days
- B 6 days
- C 12 days
- D 13 days

**Answer: A**

**Explanation:**

Let total work = L.C.M. (10,12,15) = 60 units

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

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

and C's efficiency =  $\frac{60}{15} = 4$  units/day

Let total work is completed in  $x$  days,  $\Rightarrow$  A worked for  $(x-5)$  days and B for  $(x-3)$  days

According to ques,

$$\Rightarrow 6(x-5) + 5(x-3) + 4(x) = 60$$

$$\Rightarrow 6x - 30 + 5x - 15 + 4x = 60$$

$$\Rightarrow 15x = 60 + 45 = 105$$

$$\Rightarrow x = \frac{105}{15} = 7 \text{ days}$$

$\Rightarrow$  Ans - (A)

#### Question 56

A merchant purchases a wrist watch for 450 and fixes its list price in such a way that after allowing a discount of 10% he earns a profit of 20%. Then the list price of the watch is

A 600

B 650

C 700

D 550

Answer: A

#### Explanation:

Cost price of the watch = Rs. 450

Profit % = 20%

$$\Rightarrow \text{Selling price} = 450 + \left(\frac{20}{100} \times 450\right)$$

$$= 450 + 90 = \text{Rs. } 540$$

Discount % = 10%

$$\Rightarrow \text{List price} = \frac{540}{(100-10)} \times 100$$

$$= 6 \times 100 = \text{Rs. } 600$$

$\Rightarrow$  Ans - (A)

#### Question 57

The ratio in which a man must mix rice at 10.20 per kg and 14.40 per kg so as to make a mixture worth 12.60 per kg, is

A 3:4

B 4:3

C 2:5

D 1:2

Answer: A

#### Explanation:

Quantity in which man use rice at Rs. 10.20/kg =  $x$  kg and at Rs. 14.40/kg =  $y$  kg

According to ques,

$$\Rightarrow 10.20x + 14.40y = 12.60(x+y)$$

$$\Rightarrow 102x + 144y = 126x + 126y$$

$$\Rightarrow 126x - 102x = 144y - 126y$$

$$\Rightarrow 24x = 18y$$

$$\Rightarrow \frac{x}{y} = \frac{18}{24} = \frac{3}{4}$$

$\therefore$  he ratio in which a man must mix rice at 10.20 per kg and 14.40 per kg so as to make a mixture worth 12.60 per kg = 3:4

=> Ans - (A)

## SSC CHSL Previous Papers (DOWNLOAD PDF)

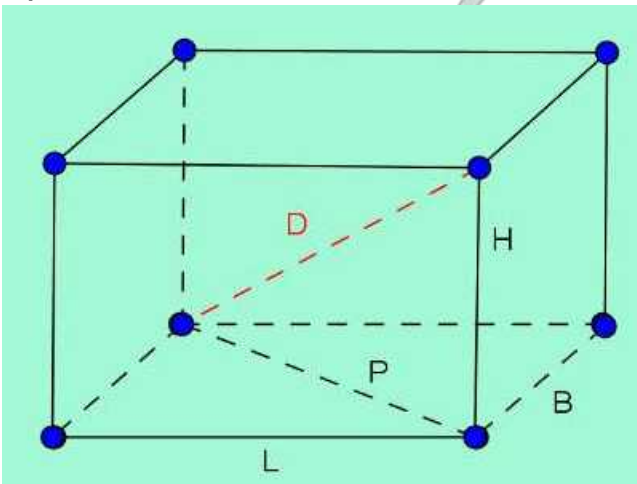
### Question 58

If the sum of the length, breadth and height of a rectangular parallelepiped is 24 cm and the length of its diagonal is 15 cm then its total surface area is

- A  $351 \text{ cm}^2$
- B  $256 \text{ cm}^2$
- C  $265 \text{ cm}^2$
- D  $315 \text{ cm}^2$

Answer: A

Explanation:



Let the length, breadth and height be  $L, B$  and  $H$ . The base diagonal,  $P^2 = L^2 + B^2$

Again, main diagonal,  $D^2 = P^2 + H^2$

$$\Rightarrow L^2 + B^2 + H^2 = (15)^2 = 225$$

Also, it is given that  $L + B + H = 24$

Total surface area =  $2(LB + BH + HL) = x$

Using square of three term expression, we get :

$$\Rightarrow (L + B + H)^2 = (L^2 + B^2 + H^2) + 2(LB + BH + HL)$$

$$\Rightarrow (24)^2 = 225 + x$$

$$\Rightarrow x = 576 - 225 = 351 \text{ cm}^2$$

=> Ans - (A)

### Question 59

Two successive discounts of 30% and 70% are equivalent to single discount of

- A 89%
- B 75%
- C 79%
- D 100%

Answer: C

**Explanation:**

Let Marked price = Rs.  $\$100$

After 1st discount of 30%, price =  $\$100 - \left(\frac{30}{100} \times 100\right)$

=  $\$100 - 30 = 70$

After 2nd discount of 70% (on changed price), selling price =  $\$70 - \left(\frac{70}{100} \times 70\right)$

=  $\$70 - 49 = 21$

$\therefore$  Net discount % =  $\frac{(100-21)}{100} \times 100 = 79\%$

=> Ans - (C)

**Question 60**

A merchant allows a discount of 10% on marked price for the cash payment. To make a profit of 17%, he must mark his goods higher than their cost price by

A 30%

B 33%

C 40%

D 27%

Answer: A

**Explanation:**

Let Cost price = Rs. 100

Profit % = 17%

=> Selling price =  $\$100 + \left(\frac{17}{100} \times 100\right)$

=  $\$100 + 17 = \text{Rs. } \$117$

Discount % = 10%

=> Marked price =  $\frac{117}{(100-10)} \times 100$

=  $\$13 \times 10 = \text{Rs. } \$130$

$\therefore$  Markup % =  $\frac{(130-100)}{100} \times 100 = 30\%$

=> Ans - (A)

## SSC Stenographer Previous Papers (Download PDF)

**Question 61**

The present ages of two persons are 36 and 50 years respectively if after n years the ratio of their ages will be 3:4 then the value of n is

A 3

B 4

C 7

D 6

Answer: D

**Explanation:**

Present ages of the persons are 36 and 50 years respectively.

According to ques,

$$\Rightarrow \frac{36+n}{50+n} = \frac{3}{4}$$

$$\Rightarrow 144 + 4n = 150 + 3n$$

$$\Rightarrow 4n - 3n = 150 - 144$$

$$\Rightarrow n = 6$$

$\Rightarrow$  Ans - (D)

#### Question 62

Out of 20 boys, 6 are each of 1 m 15 cm height, 8 are of 1 m 10 cm and rest of 1 m 12cm. The average height of all of them is

A 1m 12cm

B 1m 12.1cm

C 1m 211cm

D 1m 21cm

**Answer: B**

#### Explanation:

Total number of boys = 20

Total height of first 6 boys =  $6 \times 1.15 = 6.9$  m

Total height of next 8 boys =  $8 \times 1.10 = 8.8$  m

Total height of last 6 boys =  $6 \times 1.12 = 6.72$  m

$\Rightarrow$  Average height =  $\frac{(6.9 + 8.8 + 6.72)}{20}$

=  $\frac{22.42}{20} = 1.121 = 1 \text{ m } 12.1 \text{ cm}$

$\Rightarrow$  Ans - (B)

#### Question 63

Average of first five prime numbers is

A 3.6

B 5.3

C 5.6

D 5

**Answer: C**

#### Explanation:

Sum of first 5 prime numbers =  $2 + 3 + 5 + 7 + 11 = 28$

$\Rightarrow$  Required average =  $\frac{28}{5} = 5.6$

$\Rightarrow$  Ans - (C)

## SSC GD Constable Previous Papers

#### Question 64

A dishonest greer sells rice at a profit of 10% and also uses weight which are 20% less than the marked weight. The total gain earned by him will be

- A 35%
- B 37.5%
- C 40%
- D 30.5%

**Answer: B**

**Explanation:**

Let cost price = Re. 1/gm = Rs. 1000/kg

Weight used by the seller =  $\$1000 - \left(\frac{20}{100} \times 1000\right) = 800$  gm

Selling price =  $\$1000 + \left(\frac{10}{100} \times 1000\right) = \text{Rs. } \$1100$

$\Rightarrow$  Selling price per gm =  $\frac{1100}{800} = \text{Rs. } \$1.375$  /gm

$\therefore$  Profit % =  $\frac{(1.375-1)}{1} \times 100 = 37.5\%$

$\Rightarrow$  Ans - (B)

**Question 65**

The cost price of a radio is 600. 5% of the cost price is charged toward transportation. After adding that, if the net profit to be made is 15%, then the selling price of the radio must be

- A 684.50
- B 704.50
- C 724.50
- D 664.50

**Answer: C**

**Explanation:**

Cost price of radio = Rs. 600

Transportation price =  $\frac{5}{100} \times 600 = \text{Rs. } \$30$

$\Rightarrow$  Total Cost Price =  $\$600 + 30 = \text{Rs. } \$630$

Profit % = 15%

$\Rightarrow$  Selling price =  $\$630 + \left(\frac{15}{100} \times 630\right)$

=  $\$630 + 94.50 = \text{Rs. } \$724.50$

$\Rightarrow$  Ans - (C)

**Question 66**

A certain amount of money is divided among x,y and z. If x receives 25% more than y and y receives 25% less than z, then x:y:z is equal to

- A 12:10:11
- B 14:12:13
- C 15:12:16
- D 10:9:12

**Answer: C**

**Explanation:**

Let amount received by  $z=100$

$$\Rightarrow \text{Amount received by } y=100-\left(\frac{25}{100}\right)\times 100=75$$

$$\Rightarrow \text{Amount received by } x=75+\left(\frac{25}{100}\right)\times 75=93.75$$

$$\therefore x:y:z=93.75:75:100$$

$$= 9375:7500:10000$$

Dividing each term by 625, we get = 15:12:16

$\Rightarrow$  Ans - (C)

## SSC MTS Previous Papers (DOWNLOAD PDF)

**Question 67**

Walking at speed of 5 km/hr, a man reaches his office 6 minutes late. Walking at 6 km/hr, he reaches there 2 minutes early. The distance of his office is:

- A 2 km
- B 3 km
- C 4 km
- D 3.5 km

**Answer:** C

**Explanation:**

Let ideal time to reach office is  $t$  hours and let distance =  $d$  km

When he walks at 5 km/hr, he reaches his office 6 minutes late

Using, distance = speed  $\times$  time

$$\Rightarrow d=5\left(t+\frac{6}{60}\right) \text{-----(i)}$$

$$\text{Similarly, } d=6\left(t-\frac{2}{60}\right) \text{-----(ii)}$$

Comparing equations (i) and (ii), we get :

$$\Rightarrow 5\left(t+\frac{6}{60}\right)=6\left(t-\frac{2}{60}\right)$$

$$\Rightarrow 5t+\frac{1}{2}=6t-\frac{1}{5}$$

$$\Rightarrow 6t-5t=\frac{1}{2}+\frac{1}{5}$$

$$\Rightarrow t=\frac{(5+2)}{10}=\frac{7}{10}$$

Substituting it in equation (i),  $\Rightarrow d=5\left(\frac{7}{10}+\frac{6}{60}\right)$

$$= 5\left(\frac{48}{60}\right)=\frac{48}{12}=4 \text{ km}$$

$\Rightarrow$  Ans - (C)

**Question 68**

By selling a fan for 600, a man loses 10%. To make a gain of 20%, the selling price of the fan should be

- A 800
- B 900
- C 1000
- D 700

**Answer:** A

**Explanation:**

Selling price of fan = Rs. 600

Loss % = 10%

$$\Rightarrow \text{Cost price} = \frac{600}{(100-10)} \times 100$$

$$= \frac{6000}{9} = \text{Rs. } \frac{2000}{3}$$

Profit % = 20%

$$\therefore \text{Selling price} = \frac{2000}{3} + \left(\frac{20}{100}\right) \times \frac{2000}{3}$$

$$= \frac{2000}{3} + \frac{400}{3} = \frac{2400}{3} = \text{Rs. } 800$$

$\Rightarrow$  Ans - (A)

**Question 69**

Two persons contested an election of Parliament. The winning candidate secured 57% of the total votes polled and won by a majority of 42,000 votes. The number of total votes polled is

A 4,00,000

B 5,00,000

C 6,00,000

D 3,00,000

**Answer: D**

**Explanation:**

Let number of total votes polled =  $100x$

Votes secured by winning candidate =  $\frac{57}{100} \times 100x = 57x$

$\Rightarrow$  Votes secured by losing candidate =  $100x - 57x = 43x$

According to ques,  $\Rightarrow 57x - 43x = 42,000$

$$\Rightarrow x = \frac{42,000}{14} = 3,000$$

$\therefore$  Total votes polled =  $100 \times 3,000 = 3,00,000$

$\Rightarrow$  Ans - (D)

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

**Question 70**

A number when reduced by 10% gives 30. The number is

A 35

B  $33\frac{1}{2}$

C  $33\frac{1}{3}$

D 40

**Answer: C**

**Explanation:**

Let the number be  $x$

According to ques,  $\Rightarrow x - \left(\frac{10}{100}\right)x = 30$

$$\Rightarrow x - \frac{x}{10} = 30$$



$$\Rightarrow \frac{9x}{10} = 30$$

$$\Rightarrow x = \frac{30 \times 10}{9} = \frac{100}{3}$$

$$\Rightarrow x = 33\frac{1}{3}$$

$\Rightarrow$  Ans - (C)

#### Question 71

Two trains 108m and 112 m in length are running towards each other on the parallel lines at a speed of 45 km/hr and 54 km/hr respectively. To cross each other after they meet, it will take

A 10 sec

B 12 sec

C 9 sec

D 8 sec

Answer: D

#### Explanation:

Sum of lengths of train =  $108 + 112 = 220$  m

Trains are running towards each other,  $\Rightarrow$  Relative speed =  $45 + 54 = 99$  km/hr

$$= 99 \times \left(\frac{5}{18}\right) = 27.5 \text{ m/s}$$

$\Rightarrow$  Time taken = distance/speed

$$= \frac{220}{27.5} = 8 \text{ seconds}$$

$\Rightarrow$  Ans - (D)

#### Question 72

A sum of money becomes 1.331 times in 3 years as compound interest. The rate of interest is

A 50%

B 8%

C 7.5%

D 10%

Answer: D

#### Explanation:

Let principal sum = Rs.  $x$  and rate of interest =  $r\%$

$\Rightarrow$  Amount after 3 years = Rs.  $1.331x$

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

$$\Rightarrow x\left(1 + \frac{r}{100}\right)^3 = 1.331x$$

$$\Rightarrow 1 + \frac{r}{100} = \sqrt[3]{1.331}$$

$$\Rightarrow \frac{r}{100} = 1.1 - 1 = 0.1$$

$$\Rightarrow r = 0.1 \times 100 = 10\%$$

$\Rightarrow$  Ans - (D)

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

Question 73

A person deposited 500 for 4 years and 600 for 3 years at the same rate of simple interest in a bank. Altogether she received 190 as interest. The rate of simple interest per annum was

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

Answer: C

Explanation:

Let rate of interest =  $r\%$

Simple interest =  $\frac{P \times R \times T}{100}$

According to ques,

$$\Rightarrow \frac{500 \times r \times 4}{100} + \frac{600 \times r \times 3}{100} = 190$$

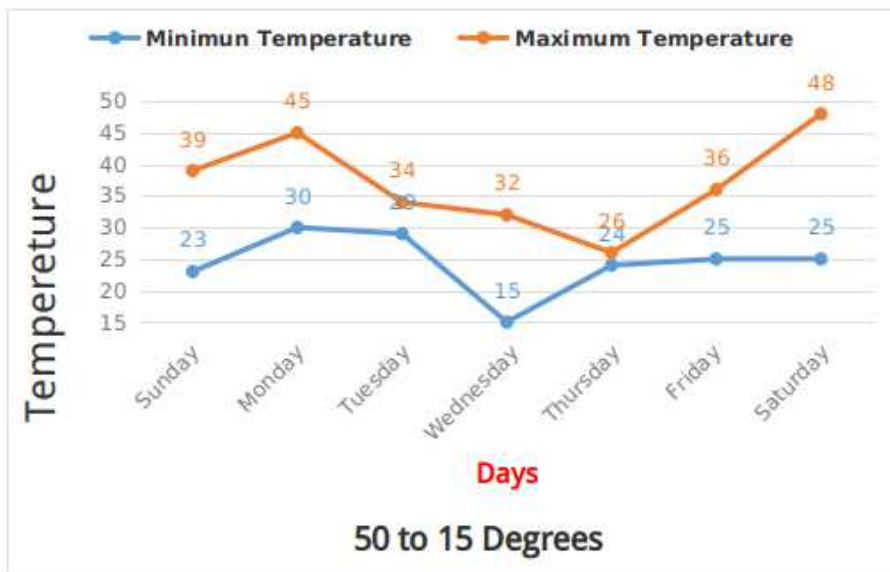
$$= 20r + 18r = 190$$

$$\Rightarrow r = \frac{190}{38} = 5\%$$

=> Ans - (C)

Question 74

The following graph represents the maximum and minimum temperature recorded every day in a certain week. The day on which the difference between the maximum and minimum temperature was maximum is



- A Monday
- B Wednesday
- C Saturday
- D Sunday

Answer: C

Explanation:

Difference between the maximum and minimum temperature :

(A) : Monday =  $\$45-30=15\$\$$

(B) : Wednesday =  $\$32-15=17\$\$$

(C) : Saturday =  $\$48-25=23\$\$$  [MAX]

(D) : Sunday =  $\$39-23=16\$\$$

=> Ans - (C)

#### Question 75

Different choices made by a group of 200 students are given below in percentages. The number of students who have taken neither Science nor Commerce is

Percentage of Students in different streams	
Name of the Streams	Intake Ratio
Science	29%
Arts	29%
Commerce	31%
Home Science	6%
Others	5%

A 40

B 80

C 120

D 60

Answer: B

#### Explanation:

Total number of students = 200

% of students who have taken neither Science nor Commerce =  $\$29+6+5=40\%\$\$$

=> Total number of students who have taken neither Science nor Commerce =  $\$\frac{40}{100}\times 200=80\$\$$

=> Ans - (B)

## SSC CHSL Free Mock Test (Latest Pattern)

### General Awareness

#### Instructions

For the following questions answer them individually

**Question 76**

**Name the commander of the Arab army who conquered the Sindh**

- A Mubammad bin Qasim
- B Al Hazzaz
- C Qutbuddin Aibak
- D Allauddin Khilji

**Answer: A**

## SSC Stenographer Previous Papers (Latest Pattern)

**Question 77**

**Who was the chairperson of the Chinese Communist Party at the time of liberation of China ?**

- A Liu shaoqi
- B Zhou Enlai
- C Deng Xiaoping
- D Mao Zedong

**Answer: E**

**Question 78**

**Who was regarded by Gandhiji as his political guru ?**

- A Gopal krishna gokhale
- B lala lajapt rai
- C bipin chandra pal
- D bal gangadhar tilak

**Answer: E**

**Question 79**

**Select the high yielding varieties of seed-crops developed under green revolution in india**

- A Wheat rice sugarene pulse and maizo
- B rice wheat pulses oil seeds and sugareane
- C maize blacj-gram jowar coffe and tea
- D rice wheat jowar bajra and maize

**Answer: D**

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

Question 80

In which year did amartya kumar sen receive the nobel prize in economics ?

- A 1990
- B 1998
- C 1995
- D 2000

Answer: E

Question 81

The worldwide great depression took place in

- A 1930
- B 1936
- C 1929
- D 1928

Answer: A

Question 82

india is the largest producer and consumer of

- A sugar
- B paddy
- C tea
- D coffee

Answer: C

## SSC MTS Free Mock Test (Latest Pattern)

Question 83

A camera in the hands of a professional photographer is a \_\_\_\_ good.

- A capital
- B free
- C intermediary
- D consumer

Answer: E

Question 84

which among the following movements was not led by mahatma gandhi?

- A civil disobedience movement
- B quit india movement
- C swadeshi movement
- D non-cooperation movement

**Answer: C**

**Question 85**

**constitution of india came into force in**

- A 1949
- B 1951
- C 1956
- D 1950

**Answer: E**

## SSC CPO Free Mock Test (Latest Pattern)

**Question 86**

**cold war refers to**

- A tension between east and west
- B ideological rivalry between capitalist and communist world
- C tension between superpower
- D all of the above

**Answer: E**

**Question 87**

**which one of the following is not an all india service?**

- A indian police service
- B indian foreign service
- C indian forest service
- D indian administrative service

**Answer: B**

**Question 88**

**in which session of the indian national congress was the poorna swaraj resolution adopted?**

- A karachi session in 1931

- B lucknow session in 1916
- C belgaum session in 1924
- D lahore session in 1929

Answer: D

## SSC MTS Free Preparation App

### Question 89

the school of arts developed during the kusham period with the mixture of indian and greek style know as

- A mughal art
- B kusham art
- C persian art
- D gandhara art

Answer: E

### Question 90

where was christopher columbus from ?

- A portugal
- B venice
- C genoa
- D spain

Answer: C

### Question 91

speed of processor chip is measured in

- A bytes/second
- B mbps
- C mhz
- D bits/second

Answer: C

## 285 SSC Mocks - Just RS. 249

### Question 92

which command is not used to switch off the computer

- A hibernate

- B turn off
- C log off
- D shut down

**Answer: E**

**Question 93**

**which one out of the following helps in burning?**

- A carbon dioxide
- B oxygen
- C carbon monoxide
- D nitrogen

**Answer: B**

**Question 94**

**in organic compounds, nitrogen is estimates by**

- A Dumas method
- B Carius method
- C Victor-meyer's method
- D Liebig's method

**Answer: A**

## SSC Exam Free Videos (Youtube)

**Question 95**

**the topic of cancer does not pass through**

- A China
- B Myanmar
- C Nepal
- D Bangladesh

**Answer: C**

**Question 96**

**The country in east asia which is most conspicuous for its decreasing population growth since 1981 is**

- A Japan
- B South korea
- C Thailand



D China

Answer: A

Question 97

the sathusamudram ship canal project sscp is supposed to reduce the distance between chennai and tuticorin by\_\_\_\_nautical miles.

A 305

B 361

C 434

D 243

Answer: C

## SSC Study Material

Question 98

Cities with population from one to five million are called

A Cosmopolitan

B Conurbation

C Million city

D Metroplitan

Answer: D

Question 99

Master copy of genetic information is

A DNA

B Nucleus

C r-RNA

D m-RNA

Answer: A

Question 100

contraceptive pills in the market conatin

A steroid-hormones

B inorganic compounds

C herbicides

D antibiotics

Answer: A

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