



SSC MTS 2nd August 2019 Shift-3

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Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Comprehension:

Deforestation 1._____ the permanent destruction of forests in order to 2._____ the land available for other uses. It 3._____ around the world, though tropical rain forests are particularly 4._____. If current deforestation levels 5._____, the world's rain forests may completely vanish in as little as 100 years, according to National Geographic.

Question 1

Select the most appropriate option for blank No. 1.

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

Answer: C

SSC CHSL Previous Papers (DOWNLOAD PDF)

Question 2

Select the most appropriate option for blank No. 2.

- A makes
- B make
- C made
- D making

Answer: B

Question 3

Select the most appropriate option for blank No. 3.

- A occurs
- B occurred
- C occurring
- D occur

Answer: A

Question 4

Select the most appropriate option for blank No. 4.

- A targeted
- B robbed

C looted

D aimed

Answer: A

SSC Stenographer Previous Papers (Download PDF)

Question 5

Select the most appropriate option for blank No. 5.

A maintain

B continue

C follow

D proceed

Answer: B

Instructions

For the following questions answer them individually

Question 6

Select the most appropriate synonym of the given word.

Demolish

A Repair

B Taunt

C Reveal

D Dismantle

Answer: D

Question 7

Select the most appropriate word for the given group of words.

Something no longer in use

A Obdurate

B Odious

C Obsolete

D Ominous

Answer: C

SSC GD Constable Previous Papers

Question 8

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

My visiting to my family are few and far between. /No error

- A No error
- B few and far between
- C My visiting to
- D my family are

Answer: C

Question 9

Select the most appropriate option to fill in the blank.

It is quite tough to _____ which candidate will win the presidential elections.

- A pretend
- B elect
- C predict
- D argue

Answer: C

Question 10

Select the most appropriate antonym of the given word.

Fluctuate

- A Stabilize
- B Mobilize
- C Waver
- D Stumble

Answer: A

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Instructions

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

Question 11

Fit as a fiddle

- A To play a melodious tune
- B In a perfectly healthy condition
- C A severe and conclusive test
- D To be a perfect match

Answer: B

Question 12

Nail-biting

- A Suspenseful
- B Plentiful
- C Peaceful
- D Joyful

Answer: A

Instructions

For the following questions answer them individually

Question 13

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

The government seems to have no interest for the welfare of the common man.

- A any interest in
- B no interest to
- C No Improvement
- D no interest in

Answer: D

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 14

Choose the correctly spelt word.

- A Dominent
- B Diseese
- C Deminish
- D Dependent

Answer: D

Question 15

Select the most appropriate option to fill in the blank.

Though I am tall, I feel inferior _____ others.

- A to
- B than
- C upon
- D from

Answer: A

Question 16

Select the most appropriate antonym of the given word.

Disperse

- A Gather
- B Neglect
- C Send
- D Hold

Answer: A

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Question 17

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

She wanted telling you who you could approach for your problem. /No error

- A No error
- B who you could approach
- C for your problem
- D She wanted telling you

Answer: D

Question 18

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

I don't think many people will be able to attend the meeting tomorrow.

- A is able
- B No improvement
- C have able
- D are able

Answer: B

Question 19

Select the most appropriate option to fill in the blank.

I watched him _____.

- A to falling
- B to fell
- C fell
- D fall

Answer: D

SSC CHSL Free Mock Test (Latest Pattern)

Question 20

Select the most appropriate synonym of the given word.

Chide

- A Flatter
- B Commend
- C Approve
- D Rebuke

Answer: D

Question 21

Select the most appropriate word for the given group of words.
Something which leads to death

- A Fatal
- B Trial
- C Penal
- D Vital

Answer: A

Question 22

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

She insisted to driving her kids to school.

- A to be driving
- B on driving
- C to drive
- D No Improvement

Answer: B

SSC Stenographer Previous Papers (Latest Pattern)

Question 23

Find the part of the given sentence that has an error in it. If there is no error, choose 'No error'.

Their friendship will not last long. /No error

- A will not
- B last long

C No error

D Their friendship

Answer: C

Question 24

Choose the correctly spelt word.

A Bachelor

B Existence

C Calender

D Antedote

Answer: B

Question 25

Select the most appropriate option to fill in the blank.

The businessman has _____ connections in the industry.

A respective

B respectable

C receptive

D responsible

Answer: B

SSC GD Constable Free Mock Test (Latest Pattern)

Reasoning

Instructions

For the following questions answer them individually

Question 26

Select the option in which the letters share the same relationship as that shared by the given pair of letters.

DP : FR

A DJ : BH

B JZ : HB

C LQ : NU

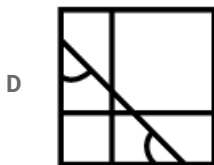
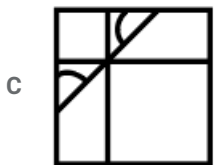
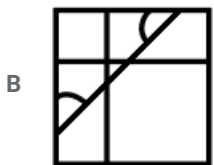
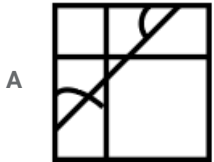
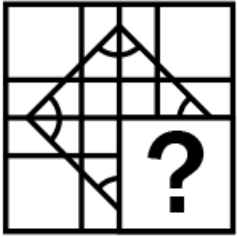
D MA : OC

Answer: D

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Question 27

Study the given pattern carefully and select the figure that will complete the pattern given in the question figure.



Answer: B

Instructions

Select the number that can replace the question mark (?) in the following series.

Question 28

137, 148, 161, 176, 193, ?

A 214

B 212

C 224

D 232

Answer: B

Question 29

5, 10, 17, 26, 37, ?

A 48

B 50

C 47

D 49

Answer: B

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Instructions

For the following questions answer them individually

Question 30

Select the option that is related to the third term in the same way as the second term is related to the first term.
Circumference : Circle :: Perimeter : ?

A 3D

B Big

C Breadth

D Square

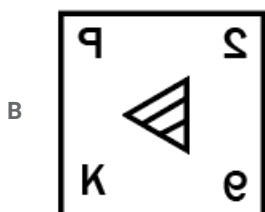
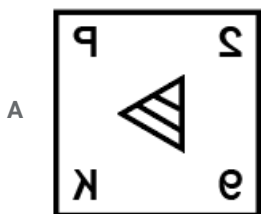
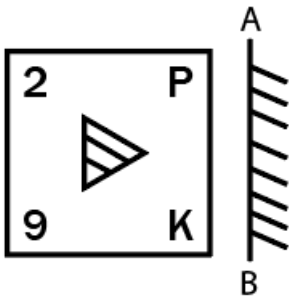
Answer: D

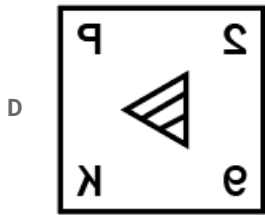
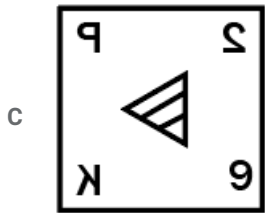
Explanation:

The periphery of circle is known as circumference similarly, for square it is perimeter.

Question 31

Select the correct mirror image of the given figure when the mirror is placed at line AB.





Answer: D

Explanation:

If the mirror is at AB then according to the law of mirror image formation i.e; nearest one will remain the nearest one after forming the mirror image so, the mirror image of the given figure will be look like option D.

Instructions

Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Question 32

Statements:

- I. All red are cars.
- II. Some yellow are red.

Conclusions:

- I. Some yellow are cars.
- II. No yellow is red.

- A Only conclusion II follows.
- B None of the conclusions follows.
- C Both conclusions I and II follow.
- D Only conclusion I follows.

Answer: D

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Question 33

Statements:

- I. All wood are chairs.
- II. All chairs are blue.
- III. No chair is a table.

Conclusions:

- I. Some tables are blue.
- II. No wood is a table.
- III. Some blue are wood.

- A Only conclusion II follows.
- B Only conclusion III follows.

C All conclusions, I, II and III, follow

D Both conclusions II and III follow.

Answer: D

Instructions

For the following questions answer them individually

Question 34

Five articles, K, L, P, R and T, are kept one above the other (not necessarily in the same order). K is just above T and just below R. L is just above P and just below T. Which article is at the second position from the bottom?

A L

B T

C P

D K

Answer: A

Question 35

In a certain code language, 'TOPAS' is written as 'WRS DV'. What will be the code for 'FREIGHT' in that code language?

A KWJNL MY

B JVIMKLX

C IUHLJKW

D IVHLJKW

Answer: C

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Question 36

Six computers labelled E, F, G, H, I and J are placed in a row facing towards the north (not necessarily in the same order). Two computers are placed between E and I. G is placed second to the right of J. F is placed second to the right of E. I is placed to the left of E. Which computer is placed to the right of G?

A E

B H

C F

D G

Answer: C

Question 37

Which two numbers need to be interchanged to make the following equation correct?

$$4 + 2 \div 3 \times 8 - 1 = 6$$

A 8 and 4

- B 2 and 4
- C 3 and 8
- D 3 and 4

Answer: D

Explanation:

If we interchange 3 and 4 then-

$$3 + 2 \div 4 \times 8 - 1$$

$$= 3 + 4 - 1$$

$$= 6$$

Question 38

Select the word pair in which the two words are related in the same way as the two words in the following word-pair.

Pen : Author

- A Knife : Chef
- B Surgeon : Scalpel
- C Carpenter : Saw
- D Gun : Gardener

Answer: A

Explanation:

Pen is the main weapon of an author similarly knife is the main weapon of a chef.

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Question 39

Select the letter-cluster that can replace the question mark (?) in the following series.

RAP, SCS, TEV, UGY, ?

- A VJB
- B WJC
- C VIB
- D WJB

Answer: C

Question 40

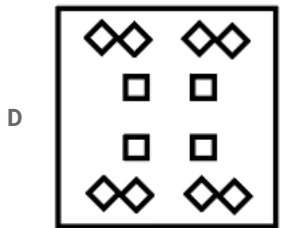
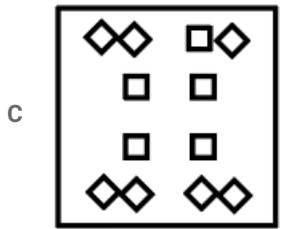
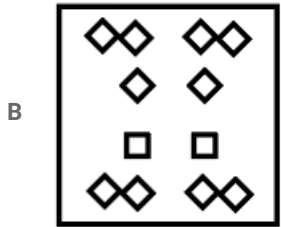
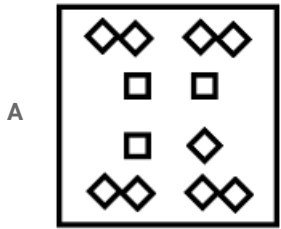
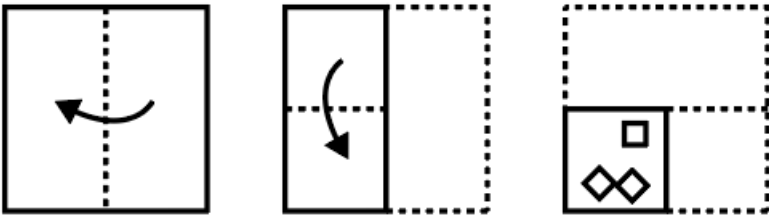
In a certain code language, 'ROAD' is written as '40' and 'HEAR' is written as '34'. What will be the code for 'POEM' in that code language?

- A 50
- B 47
- C 51
- D 49

Answer: C

Question 41

A paper is folded and cut as shown below. How will it appear when unfolded?

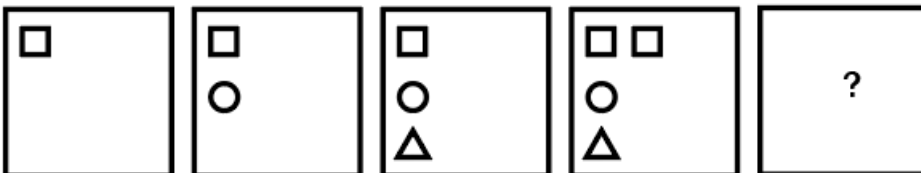


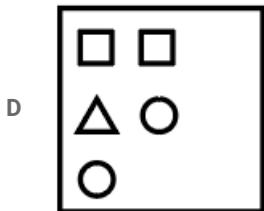
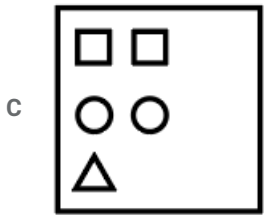
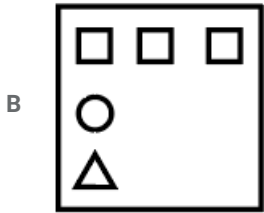
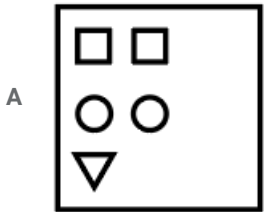
Answer: D

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Question 42

Select the figure that will come next in the following series.

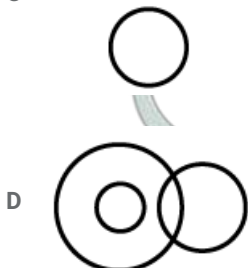
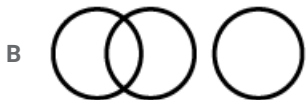




Answer: C

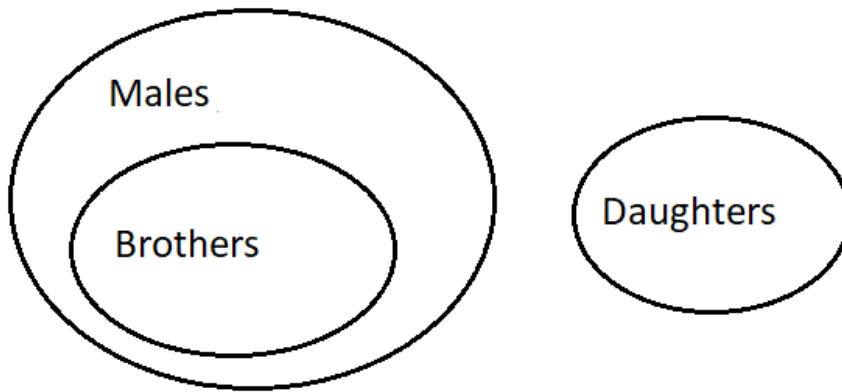
Question 43

Identify the Venn diagram that best represents the relationship between the given classes.
Males, Brothers, Daughters



Answer: A

Explanation:



Question 44

In a certain code language, 'ROCKER' is written as 'SNDJFQ'. What will be the code for 'PRIEST' in that code language?

- A SSLFVU
- B QQJDTS
- C QQJDTU
- D RRKEUT

Answer: B

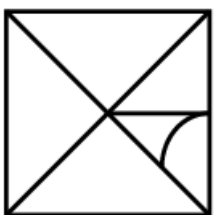
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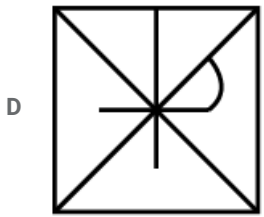
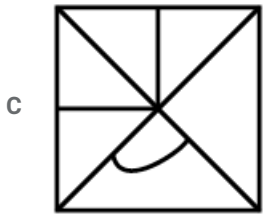
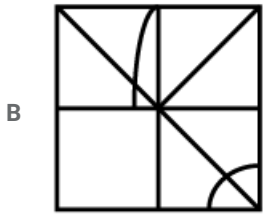
Question 45

Select the option in which the given figure is embedded. (Rotation is not allowed)



A





Answer: D

Question 46

Five products, N, L, T, V and R, are placed in a row facing towards the east (not necessarily in the same order). T is second to the left of U. N is second to the right of L. R is to the immediate right of U. Which product is at the second position from the north end?

A T

B U

C N

D L

Answer: A

Question 47

Select the option that is related to the third number in the same way as the second number is related to the first number.
 $32 : 61 :: 44 : ?$

A 71

B 89

C 73

D 67

Answer: C

SSC GK Free Tests

Question 48

In a certain code language, 'PAIN' is written as '161914' and 'TYRE' is written as '2025185'. What will be the code for 'LONG' in that code language?

A 1215917

B 1215197

C 1215147

D 1215417

Answer: C

Question 49

Study the given pattern carefully and select the number that can replace the question mark (?) in it.

| | | |
|----|---|----|
| 5 | 7 | 9 |
| 6 | 8 | 2 |
| 3 | 4 | 1 |
| 48 | ? | 20 |

A 94

B 84

C 88

D 98

Answer: C

Question 50

If digit 3 is interchanged with digit 1, then what will be the value of the following equation?

$$6 + 9 \div 1 \times 3 - 2 = ?$$

A 8

B 9

C 6

D 7

Answer: D

SSC GK Questions

Quant

Instructions

For the following questions answer them individually

Question 51

An article is sold for ₹ 2070 at a 15% profit. If the article is sold for ₹ 1890, then what will be the gain/loss percent?

A 10% loss

B 5% loss

C 10% gain

D 5% gain

Answer: D

Explanation:

selling price = 2070

cost price = 100

$$\begin{aligned} \text{Profit of 1st article} &= \frac{15}{100} \times 100 \\ &= 15 \end{aligned}$$

S.p = cost price + profit

$$= 100 + 15 = 115$$

115 = 2070(given)

$$= 18$$

c.p = 100 × 18

$$= 1800$$

If article is sold at 1890

$$= \frac{1890 - 1800}{1800} \times 100$$

Gain = 5

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Question 52

What is the smallest number which when increased by 5 is divisible by 12, 18 and 30?

A 175

B 115

C 235

D 195

Answer: A

Explanation:

$$175 + 5 = 200$$

This a no. Which is divisible by all 3

115+5 = 120 is not divisible by 18 and remaining nos. Are bigger than 175

Question 53

What is the value of $1 - \frac{2}{3} \text{ of } \frac{9}{4} + 2 \div \frac{1}{4} \times \left(1 + \frac{1}{3}\right)$?

A $\frac{7}{10}$

B $\frac{9}{19}$

C $\frac{19}{10}$

D $\frac{7}{11}$

Answer: C

Explanation:

firstly solve bracket than apply bodmass rule

$$\frac{2}{3} \text{ of } \frac{9}{4} + 2 \div \frac{5}{4}$$
$$1 - 3 + 4 \times (1 + 3)$$

$$\frac{3}{2} + \frac{1}{1} \div \frac{5}{4}$$
$$3 + 4 \times 3$$

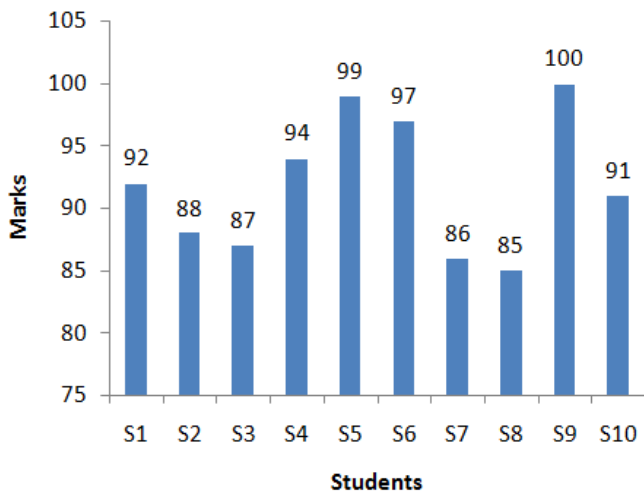
$$\frac{3}{2} + \frac{2}{1} + \frac{5}{4}$$
$$3 + 4 \times 3$$

$$\frac{3}{2} + \frac{2}{5} + \frac{1}{1}$$
$$3 + 3$$

$$19$$
$$10$$

Question 54

The Bar graph given below presents the marks (out of 100) obtained by 10 students in a subject.



What is the average of the marks obtained by all the students?

- A 91.9
- B 90.9
- C 82.9
- D 89.9

Answer: A

Explanation:

$$\text{avg} = \frac{88+92+87+94+99+97+86+85+100+91}{10} = 91.9$$

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Question 55

A is 20% more than B, which is 25% less than C. Which of the following is true about A and C?

- A A = 0.9C

- B A = 1.1C
- C A = 0.95C
- D A = C

Answer: A

Explanation:

Consider C=100

Given B=25% less than C = $100 - (100 \times 25\%)$

$$= 100 - (100 \times 0.25)$$

$$= 100 - 25$$

$$= 75$$

A=20% more than B

$$= 75 + (0.2 \times 75)$$

$$= 90$$

To find C is how much percent less than A, we have C = 100 and A = 90 , B= 75

$$\frac{A}{C} = \frac{90}{100}$$

$$\frac{A}{C} = 0.9$$

Question 56

A mixture has milk and water in the ratio (by volume) of 8 : 3. If 3 litres of water is added to it, then new ratio of milk and water becomes 2 : 1. What are the quantities of milk and water respectively in the mixture initially?

- A 24 litres and 9 litres
- B 32 litres and 12 litres
- C 40 litres and 15 litres
- D 16 litres and 6 litres

Answer: A

Explanation:

Initially mixture is 8:3

After adding 3 lit water it becomes 2:1

It means quantity of milk is remain unchanged and water is changed in mixture

2:1 $\times 4$ (to equal the milk quantity)

$$= 8:4$$

Now milk ratio is same and water is changed after adding water

the difference in the ratio (8:3)-(8:4) is 0: 1

1unit -> 3 lit

Given that intial mix. Ratio =8:3

$$\text{Milk} = 8 \times 3 = 24 \text{ litre}$$

$$\text{Water} = 3 \times 3 = 9 \text{ litre}$$

Question 57

What is the average of first seven prime numbers (correct to two decimal places)?

- A 7.14
- B 8.76
- C 7.64
- D 8.29

Answer: D

Explanation:

first 7 prime no. is 2,3,5,7,11,13,17

$$\text{Avg} = \frac{\text{sum of no.}}{\text{no. of term}}$$

$$= \frac{58}{7}$$

$$= 8.29$$

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Question 58

An article is sold for ₹ 810 at a loss of 10%. What should be the selling price if the loss is 20%?

- A ₹ 750
- B ₹ 630
- C ₹ 600
- D ₹ 720

Answer: D

Explanation:

selling price = 810

cost price = 100

$$\text{Loss of 1st article} = \frac{10}{100} \times 100$$

$$= 10$$

selling price = c.p - loss

$$= 100 - 10$$

$$= 90$$

90=810(given)

$$1 = 9$$

$$\text{c.p} = 100 \times 9$$

$$= 900$$

In 2nd article

Cost price is same= 900

$$\text{Loss of 2nd article} = \frac{20}{100} \times 900$$

$$= 180$$

s.p = c.p - loss

$$= 900 - 180$$

= Rs 720

Question 59

The side of a cube is 15 cm. What is the base area of a cuboid whose volume is 175 cm^3 less than that of the cube and whose height is 32 cm?

- A 200 cm^2
- B 100 cm^2
- C 160 cm^2
- D 325 cm^2

Answer: B

Explanation:

vol of cube - 175 = vol of cuboid

side of cube = 15 cm

vol of cube = side^3

$$= 3375 \text{ cm}^3$$

so

vol of cuboid = $3375 - 175$

$$= 3200 \text{ cm}^3$$

vol of cuboid = $l \times b \times h$

$$3200 = l \times b \times 32$$

$$l \times b = 100 \text{ cm}^2 = \text{base area}$$

Question 60

An article is sold for ₹ 7650 after two successive discounts of 15% and 25%. What is the marked price of the article?

- A ₹ 15000
- B ₹ 10000
- C ₹ 14000
- D ₹ 12000

Answer: D

Explanation:

formula of successive discount = $d_1 + d_2 - d_1 \times d_2 \div 100$

= 15

= 36.25

marked price = Rs 100

$$\text{discount} = \frac{36.25}{100} \times 100$$

$$= 36.25$$

Selling price = $100 - 36.25 = 63.75$

Given that

Selling price = 7650

$$63.75 = 7650$$

$$1 = 7650 \div 63.75$$

$$= 120$$

Means 1 value is 120

And we assumed above that

100 is our marked price

$$1 = 120$$

$$100 = 12000$$

So marked price is Rs 12000

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Question 61

The total surface area of a hollow cuboid is 340 cm^2 . If the length and the breadth of the cuboid are 10 cm and 8 cm respectively, then what is the length of the longest stick that can be fitted inside the cuboid?

- A 10 cm
- B $4\sqrt{41}$ cm
- C $3\sqrt{21}$ cm
- D 21 cm

Answer: C

Explanation:

$$\text{vol of cuboid} = 2 \times (l \times b + b \times h + h \times l)$$

$$340 = 2 \times (10 \times 8 + 8 \times h + h \times 10)$$

$$h = 5 \text{ cm}$$

length of longest rod = diagonal of cuboid

$$\begin{aligned} \text{diagonal of cuboid} &= \sqrt{l^2 + b^2 + h^2} \text{ cm} \\ &= \sqrt{10^2 + 8^2 + 5^2} \text{ cm} \\ &= 3\sqrt{21} \text{ cm} \end{aligned}$$

Question 62

A sum of money becomes 3 times in 10 years at the rate of compound interest (compounded annually). In how many years will it become 81 times?

- A 40 years
- B 50 years
- C 35 years
- D 30 years

Answer: A

Explanation:

$$\text{amount with compound interest} = P \left(1 + \frac{R}{100}\right)^n$$

$$3P = P\left(1 + \frac{R}{100}\right)^{10}$$

$$3 = \left(1 + \frac{R}{100}\right)^{10} \rightarrow (1)$$

$$\text{amount with compound interest} = P\left(1 + \frac{R}{100}\right)^n$$

$$81P = P\left(1 + \frac{R}{100}\right)^T$$

$$3^4 = \left(1 + \frac{R}{100}\right)^T \rightarrow (2)$$

Equating both the equations

$$\left(\left(1 + \frac{R}{100}\right)^{10}\right)^4 = \left(1 + \frac{R}{100}\right)^T$$

$$T = 40 \text{ years}$$

Question 63

The ratio of monthly incomes of Ram and Rahim is 4 : 3 and the ratio of their monthly expenditures is 3 : 2. If each saves ₹ 5000 per month, then what are the respective monthly incomes of Ram and Rahim?

- A ₹ 12000 and ₹ 9000
- B ₹ 10000 and ₹ 7500
- C ₹ 16000 and ₹ 12000
- D ₹ 20000 and ₹ 15000

Answer: D

Explanation:

profit = income - expenditure

income of ram and rahim is $4x$ and $3x$

and their expenditure is $3y$ and $2y$

saving by ram is

$$4x - 3y = 5000$$

$$\text{saving by rahim is } 3x - 2y = 5000$$

by solving both equation we get

$$x = y$$

put $x = y$ in above equations we get

$$x = 5000$$

$$y = 5000$$

$$\text{so } 4x = 4 \times 5000 = \text{RS } 20000$$

$$3x = 3 \times 5000 = \text{RS } 15000$$

SSC GD Constable Previous Papers

Question 64

A boat can travel 60 km in 3 hours while going downstream, It can travel 90 km in 5 hours while going upstream. What is the ratio of the speed of boat in still water to the speed of the stream?

- A 6 : 1

- B 4 : 1
- C 19 : 1
- D 10 : 9

Answer: C

Explanation:

$$\text{downstream} = \frac{\text{distance}}{\text{time}}$$

$$\text{downstream} = \frac{60}{3}$$

$$= 20 \text{ km/hr}$$

$$\text{downstream} = \frac{\text{distance}}{\text{time}}$$

$$\text{upstream} = \frac{\text{distance}}{\text{time}}$$

$$\text{upstream} = \frac{90}{5}$$

$$= 18 \text{ km/hr}$$

$$\text{Speed of boat} = \frac{\text{speed of upstream} + \text{speed of downstream}}{2}$$

$$= 19 \text{ km/hr}$$

$$\text{Speed of stream} = \frac{\text{speed of upstream} - \text{speed of downstream}}{2}$$

$$= 1 \text{ km/hr}$$

$$\text{Ratio} = 19 : 1$$

Question 65

The simple interest for 9 years on a principal is $\frac{3}{5}$ of the principal. What is the rate of interest per annum?

- A 6%
- B 4%
- C $6\frac{2}{3}\%$
- D $5\frac{2}{3}\%$

Answer: C

Explanation:

$$S.I = \frac{P \times R \times T}{100}$$

$$\frac{3}{5}P = \frac{P \times R \times 9}{100}$$

$$R = 6\frac{2}{3}\%$$

Question 66

A can do a piece of work alone in 8 days. B can do the same work alone in 21 days. If they work together for 3 days, then how much work is completed?

- A $\frac{29}{67}$
- B $\frac{31}{65}$
- C $\frac{27}{64}$

D $\frac{29}{56}$

Answer: D

Explanation:

A = 8 days

B = 21 days

Total work = lcm (8,21) = 168 days

A's efficiency = $168 \div 8 = 21$ days

B's efficiency = $168 \div 21 = 8$ days

A+B = $168 \div 29$

A+B's one day work = $29 \div 168$

A+B's 3 day work = $29 \div 168 \div 3$

$$= \frac{29}{56}$$

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Question 67

What is the value of $\frac{3}{7} \div \frac{9}{21} + 2 - \frac{4}{3} + \frac{1}{2}$ of $\frac{12}{5} \times \frac{25}{18} \div 9$?

A 2

B $\frac{17}{3}$

C $\frac{14}{3}$

D 4

Answer: C

Explanation:

$$\frac{3}{7} \div \frac{9}{21} + 2 - \frac{4}{3} + \frac{1}{2} \text{ of } \frac{12}{5} \times \frac{25}{18} \div 9$$

$$\frac{3}{7} \div \frac{9}{21} + 2 - \frac{4}{3} + \frac{1}{2} \times \frac{12}{5} \times \frac{25}{18} \div 9$$

$$1 + 2 - \frac{4}{3} + \frac{6}{5} \times \frac{5}{2}$$

$$1 + 2 - \frac{4}{3} + 3$$

$$6 - \frac{4}{3}$$

$$= \frac{14}{3}$$

Question 68

What is the average of first six natural numbers, which are multiples of 3?

A 10.5

B 11

C 12

D 9.5

Answer: A

Explanation:

First 6 natural no. Of multiple of 3 is 3,6,9,12,15,18

$$\text{Avg} = \frac{\text{sum of no.}}{\text{no. of term}}$$

$$= \frac{63}{6}$$
$$= 10.5$$

Question 69

A train crosses a 600 metres long platform in 50 seconds. It crosses another 900 metres long platform in 60 seconds. What are the length and the speed of the train? (Assuming the train is going at constant speed)

- A 900 metres, 96 km/h
- B 900 metres, 108 km/h
- C 600 metres, 108 km/h
- D 700 metres, 96 km/h

Answer: B

Explanation:

$$\text{speed} = \frac{\text{length of train} + \text{length of platform}}{\text{time}}$$

In both. The case speed of train will be same so,

$$\frac{L + \text{length of platform}}{\text{time}} = \frac{L + \text{length of platform}}{\text{time}}$$

$$\frac{L + 600}{50} = \frac{L + 900}{60}$$

$$L = 900 \text{ m}$$

$$\text{Speed} = \frac{900 + 600}{50}$$

$$= 30 \text{ m/s}$$

Change into km/hr

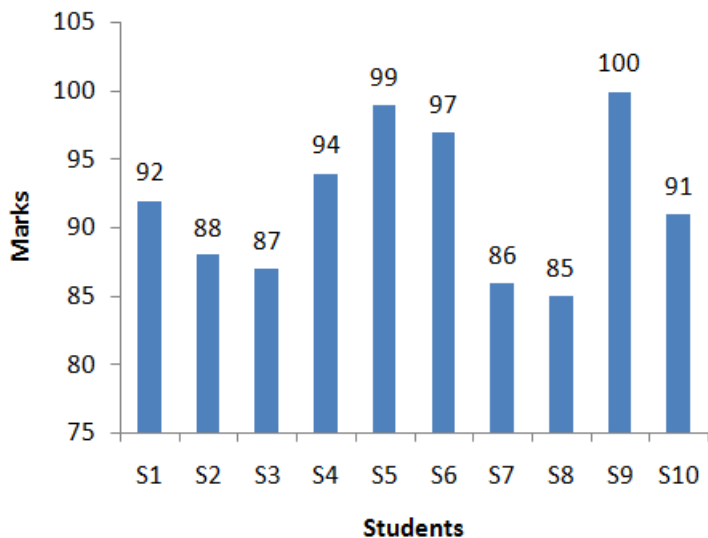
$$30 \times \frac{18}{5}$$

$$= 108 \text{ km/hr}$$

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 70

The Bar graph given below presents the marks (out of 100) obtained by 10 students in a subject.



The average of marks obtained by S3 and S5 is what percent less than the marks obtained by S9?

- A 7%
- B 9%
- C 8%
- D 10%

Answer: A

Explanation:

S3 = 87

S5 = 99

$$\text{avg} = \frac{99+87}{2} = 93$$

S9 = 100

so,

$$\frac{100-93}{100} \times 100 = 7\%$$

Question 71

The height of a right circular cone is 5 cm and its base radius is 12 cm. What is the curved surface area of the cone?

- A $132\pi\text{cm}^2$
- B $143\pi\text{cm}^2$
- C $156\pi\text{cm}^2$
- D $168\pi\text{cm}^2$

Answer: C

Explanation:

$$\text{cone} = \pi \times r \times l$$

Given

Height = 5 cm

Radius = 12 cm

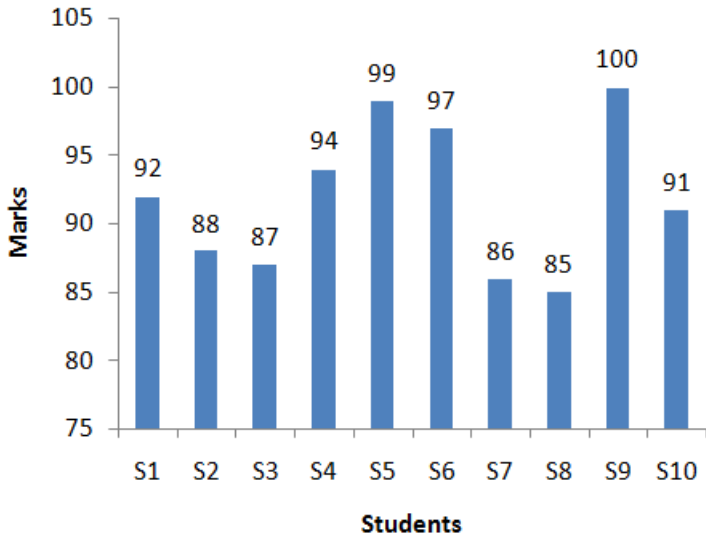
So Slant height = $\sqrt{5^2 + 12^2} = 13$ cm

Cone = $\pi \times 12 \times 13$

$$156\pi m^2$$

Question 72

The Bar graph given below presents the marks (out of 100) obtained by 10 students in a subject.



The marks obtained by S5 is how much percent more than the average marks of the students (correct to two decimal)?

- A 7.73%
- B 22.73%
- C 12.73%
- D 17.73%

Answer: A

Explanation:

number of employees in year S5 = 99

$$\text{avg1} = \frac{88+92+87+94+99+97+86+85+100+91}{10} = 91.9$$

S5 is how much percent more than the average marks of the students

$$= \frac{99-91.9}{91.9} \times 100 = 7.73\%$$

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Question 73

Pipe P can fill a tank alone in 7 hours. Pipe Q can fill the same tank alone in 13 hours. In how much time can they together fill the tank?

- A 3 hours 18 minutes
- B 3 hours 45 minutes
- C 4 hours 12 minutes

D 4 hours 33 minutes

Answer: D

Explanation:

P = 7 hrs

Q = 13 hrs

Total work = lcm (7,13) = 91 hrs

P's efficiency = $91 \div 7 = 13$

Q's efficiency = $91 \div 13 = 7$

(P+Q)'s together takes = $Totalwork \div totalefficiency$

$$= 91 \div 20$$

convert 91 hrs into minutes = $91 \times 60 = 5460$

$$= 5460 \div 20$$

$$= 273 \text{ min}$$

$$= 273 \div 60$$

$$= 4 \text{ hours } 33 \text{ minutes}$$

Question 74

For three numbers, the ratio of the first and the second numbers is 2 : 3 and that of the second and the third numbers is 4 : 5. If the sum of the three numbers is 140, then what is the second number?

A 60

B 48

C 96

D 32

Answer: B

Explanation:

first and second ratio = 2:3

second and third ratio = 4:5

Second no. Ratio should be equal in both the cases

To equal both the cases multiply with 4 and 3 respectively

$$2 : 3 \times 4 = 8:12$$

$$4 : 5 \times 3 = 12:15$$

ATQ

sum of three = 140

$$8x + 12x + 15x = 140$$

$$35x = 140$$

$$x = 4$$

Second no. = 12×4

$$= 48$$

Question 75

What is the median of 6, 9, 13, 8, 3, 2, 5, 7 and 11?

- A 7
- B 6.5
- C 8
- D 6

Answer: A

Explanation:

Firstly arrange the number in ascending order 2, 3, 5, 6, 7, 8, 9, 11, 13

The middle term is median = 7

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General knowledge

Instructions

For the following questions answer them individually

Question 76

Who among the following tennis player has won the most Grand Slam tournament titles (as of January 2019)?

- A Rafael Nadal
- B Serena Williams
- C Steffi Graf
- D Roger Federar

Answer: B

SSC Stenographer Previous Papers (Latest Pattern)

Question 77

Book 'A brief history of time' is written by:

- A John Green
- B J K Rowling
- C Suzame Colling
- D Stephen Hawking

Answer: D

Question 78

Anna Rajam Malhotra who died in 2018 was:

- A First female Indian MLA
- B First female Indian Chief Secretary
- C First female Indian IAS officer
- D First female Indian IPS officer

Answer: C

Question 79

Which of the following pairs is INCORRECTLY matched?

- A Tawa - Gujarat
- B Korba - Chattisgarh
- C Nagarjunasagar - Andhra Pradesh
- D Farakka - West Bengal

Answer: A

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Question 80

Reserve Bank of India (RBI) does not transact the business of which of the following State Government?

- A Bihar
- B Jammu and Kashmir
- C Telangana
- D Meghalaya

Answer: B

Question 81

Vyas Samman 2018 conferred to:

- A Mamta Kalia
- B Amitav Ghosh
- C Leeladhar Jagudi
- D K Siva Reddy

Answer: C

Explanation:

The 28th **Vyas Samman** for the year **2018** was **conferred** on noted Hindi poet and writer Leeladhar Jagoori for his poetry collection 'Jitne Log Utne Prem', at a function held in New Delhi. Jagoori was **conferred** the prestigious award for his poetry collection by renowned author and scholar Govind Mishra.

Question 82

Which of the following writs provides a remedy for a person who has been unlawfully held in prison?

- A Certiorari
- B Habeas Corpus
- C Mandamus
- D Prohibition

Answer: B

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Question 83

Which of the following pairs is INCORRECTLY matched?

- A Colosseum - Italy
- B Chichen Itza - Brazil
- C Petra - Jordan
- D Machu Picchu - Peru

Answer: B

Question 84

The Dargah of Sheikh Khwaja Qutubuddin Bakhtiyar Kaki is located in:

- A Ajmer
- B Ajodhan
- C Delhi
- D Agra

Answer: C

Question 85

Who among the following became the country's Vice President twice?

- A Bhairon Singh Shekhawat
- B Mohammad Hidayatullah
- C Sarvapalli RadhaKrishnan
- D K R Narayanan

Answer: C

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Question 86

Kishtwar National Park is located in:

- A Jharkhand
- B Jammu and Kashmir
- C Himachal Pradesh
- D Uttrakhand

Answer: B

Question 87

Who was the President of Congress during Belgaum Summit of Congress in 1924?

- A K.L. Nehru
- B Charu Majumdar
- C J.L. Nehru
- D M.K. Gandhi

Answer: D

Question 88

With reference to the steel plants in India, which of the following pairs is correct?

- A Durgapur - Odisha
- B Salem - Tamil Nadu
- C Rourkela - West Bengal
- D Bokaro - Bihar

Answer: B

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Question 89

Who of the following is referred to as Dhing Express?

- A Hima Das
- B Milkha Singh
- C Dutee Chand
- D P.T. Usha

Answer: A

Question 90

Which of the following is NOT related to fundamental rights?

- A Right to form association
- B Right to education

- C Right to life
- D Right to property

Answer: D

Question 91

Gir National Park is situated in:

- A West Bengal
- B Gujarat
- C Rajasthan
- D Assam

Answer: B

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Question 92

Fiscal Policy is formulated by _____ in India.

- A NITI Ayog
- B Finance Ministry
- C RBI
- D Different Banks

Answer: B

Question 93

Who among the following is NOT associated to the Mughal empire?

- A Kamran Mirza
- B Sher Shah Suri
- C Shah Alam II
- D Dara Sikoh

Answer: B

Question 94

Muga silk is associated to which of the following states of India?

- A Assam
- B Bihar
- C Arunachal Pradesh
- D Maharashtra

Answer: A

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Question 95

Einstein was awarded the Nobel Prize for:

- A Theory of relativity
- B Theory of photoelectric effect
- C Theory of specific heat
- D Theory of Brownian motion

Answer: B

Question 96

Graphene is:

- A Isotope of boron
- B An alloy of iron
- C Allotrope of Carbon
- D An alloy of tin

Answer: C

Question 97

Which of the following disease is caused by virus?

- A Tetanus
- B Leprosy
- C Rubella
- D Malaria

Answer: C

SSC Study Material

Question 98

Kumbh Mela is NOT held at:

- A Allahabad
- B Ujjain
- C Puri
- D Haridwar

Answer: C

Question 99

Which of the following is richest in Vitamin C?

- A Soya Milk
- B Apple
- C Amla
- D Carrot

Answer: C

Question 100

In which of the following is reference of Indian Dance forms found?

- A Abhang
- B Natya Shashtra
- C Kama sutra
- D Bramha Sutra

Answer: B

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