



SSC CHSL 14th October 2020 Shift-3

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

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.

There are too less space for Naveen to park his car in front of the shop.

- A was too little space
- B No improvement
- C were too little space
- D was so few space

Answer: A

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Question 2

Identify the segment in the given sentence, which contains the grammatical error.

Did you tell to your mother that you saw her friend at the theater?

- A Did you tell to
- B you saw her friend
- C at the theater
- D your mother that

Answer: A

Question 3

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. One of them said "Let us use our combined knowledge to bring this animal to life."
- B. On the way, the three friends passed through a forest.
- C. Seeing the bones, the friends thought of testing their knowledge and skills.
- D. Under a tree in the forest, they saw the bones of an animal.

- A ADCB
- B CABD
- C BCAD
- D BDCA

Answer: D

Question 4

Select the correct direct form of the given sentence.

Balaji said that he had already paid the instalment when the notice came to him.

- A Balaji said, "I have already paid the instalment when the notice will come to me."

- B Balaji said, "I already paid the instalment when the notice had come to me."
- C Balaji said, "I had already paid the instalment when the notice came to me."
- D Balaji said, "He has already paid the instalment when the notice came to him."

Answer: C

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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:

'Staged tourism' whether it is of the tiger or the snow leopard kind, is driven by the desire of visitors to see specific animals. This often (1)_____ pressure on a certain area, with hordes (2)_____ tourists rushing to a spot. In (3)_____ case of tigers, it is quite possible (4)_____ the animal is stressed by the (5)_____ caused by a bunch of excited tourists.

Question 5

Select the most appropriate option to fill in blank number 1.

- A makes
- B does
- C gives
- D puts

Answer: D

Question 6

Select the most appropriate option to fill in blank number 2.

- A of
- B from
- C with
- D by

Answer: A

Question 7

Select the most appropriate option to fill in blank number 3.

- A a
- B that
- C this
- D the

Answer: D

Question 8

Select the most appropriate option to fill in blank number 4.

- A how
- B why
- C that
- D what

Answer: C

Question 9

Select the most appropriate option to fill in blank number 5.

- A disappointment
- B disturbance
- C disbelief
- D dismissal

Answer: B

Instructions

For the following questions answer them individually

Question 10

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**.

Lata told to her team leader that she would be leaving office early as she had some urgent personal work.

- A Lata tell to her team leader
- B Lata told her team leader
- C No improvement
- D Lata telling to her team leader

Answer: B

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Question 11

Select the most appropriate option to fill in the blank in the given sentence.

Students who are capable of understanding and managing their 'emotional intelligence' do better at school in _____ to their peers who lack the ability.

- A difference
- B similarity
- C resemblance
- D comparison

Answer: D

Question 12

Identify the segment in the given sentence which contains the grammatical error.

You had better not to try and feed the animals in the zoo, it is forbidden.

- A and feed the animals
- B You had better not to try
- C in the zoo
- D it is forbidden

Answer: B

Question 13

Select the word which means the same as the group of words given.

A large bedroom for a number of people in a school or institution

- A Dormitory
- B Residence
- C Hostel
- D Lodge

Answer: A

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Question 14

Select the most appropriate option to fill in the blank in the given sentence.

The area is _____ close circuit television surveillance.

- A under
- B over
- C about
- D into

Answer: A

Question 15

Select the most appropriate ANTONYM of the given word.

HARSH

- A Lenient
- B Robust
- C Fragile
- D Energetic

Answer: A

Question 16

Select the most appropriate meaning of the underlined idiom in the given sentence.
If someone is an old hand, then he/she is:

- A experienced
- B aged
- C weak
- D forgetful

Answer: A

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Question 17

Select the most appropriate synonym of the given word.
ROTUND

- A Round
- B Range
- C Rocky
- D Rolled

Answer: A

Question 18

Given below are four jumbled sentences. Out of the given options pick the one that gives their correct order.

- A. It was known as Lolark Ghat earlier and was renamed in honour of the saint.
- B. In 1941, industrialist B.D. Birla undertook the renovation of the ghat.
- C. Among the seven ghats that are associated with his life, the Tulsi Ghat is most special.
- D. The glorious city of Kashi, famous for its ghats along the Ganges river, is where the 17th century saint-poet, Tulsidas, lived.

- A DCAB
- B CDBA
- C BDCA
- D ABDC

Answer: A

Question 19

Select the most appropriate synonym of the given word.
MANDATE

- A Broken promise
- B Last trip
- C Official order

D Man-made

Answer: C

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Question 20

Select the most appropriate meaning of the underlined idiom in the given sentence.
Sandeep received a new lease of life after moving to Pune.

A looked for a group of friends

B started taking healthy food

C became energetic again

D started looking for a job

Answer: C

Question 21

Select the INCORRECTLY spelt word.

A Surender

B Succulent

C Succumb

D Success

Answer: A

Question 22

Select the most appropriate ANTONYM of the given word.
ARROGANCE

A Ignorance

B Familiarity

C Honesty

D Humility

Answer: D

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Question 23

Select the correct passive form of the given sentence.
Please make a cup of coffee for me.

A I request you to make a cup of coffee for me.

B Can you please make a cup of coffee for me?

- C Let a cup of coffee be made for me.
- D A cup of coffee can be made for me by you.

Answer: C

Question 24

Select the word which means the same as the group of words given.
One who studies the elections and voting trends

- A Sociologist
- B Reviewer
- C Psephologist
- D Researcher

Answer: C

Question 25

Select the correctly spelt word.

- A Insigneficant
- B Unsustainable
- C Imppending
- D Changeable

Answer: D

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General Intelligence

Instructions

For the following questions answer them individually

Question 26

Which of the following options is the correct mirror image of the given figure when the mirror is placed to the right side of the figure?

aeugh!#%428ghr

- A **1ng85t\#\!nguea**
- B **1ng85t\#\!nguea**
- C **1ng85t\#\!nguea**
- D **1ng85t\#\!nguea**

Answer: C

Explanation:

When the mirror is placed on the right side of the figure,

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

∴ The mirror image of the given figure is

Hence, the correct answer is Option C

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Question 27

Three of the following four number-pairs are alike in a certain way and one is different. Find the odd one out.

A 25 : 676

B 21 : 484

C 24 : 529

D 30 : 961

Answer: C

Explanation:

$$25 : 676 \rightarrow 25 : 26^2 \rightarrow 25 : (25+1)^2$$

$$21 : 484 \rightarrow 21 : 22^2 \rightarrow 21 : (21+1)^2$$

$$24 : 529 \rightarrow 24 : 23^2 \rightarrow 24 : (24-1)^2$$

$$30 : 961 \rightarrow 30 : 31^2 \rightarrow 30 : (30+1)^2$$

Every Option is in the form of $N : (N+1)^2$ except Option C

Hence, the correct answer is Option C

Question 28

Select the option that is related to the third word in the same way as the second word is related to the first word.

School : Education :: Hospital : ?

A Treatment

B Books

C Doctors

D Diseases

Answer: A

Explanation:

Education is provided in the School whereas Treatment is provided in the Hospital

∴ Treatment is related to Hospital in the same way Education is related to School

Hence, the correct answer is Option A

Question 29

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

$$3 \times 9 + 5 - 18 \div 7 = 24$$

- A 18 and 9
- B 3 and 5
- C 9 and 7
- D 5 and 7

Answer: C

Explanation:

By Trial and Error method,

Option A

$$3 \times 18 + 5 - 9 \div 7 = 24$$

$$3 \times 18 + 5 - \frac{9}{7} = 24$$

The value will be decimal after solving which is not possible

Option B

$$5 \times 9 + 3 - 18 \div 7 = 24$$

$$5 \times 9 + 3 - \frac{18}{7} = 24$$

The value will be decimal after solving which is not possible

Option C

$$3 \times 7 + 5 - 18 \div 9 = 24$$

$$3 \times 7 + 5 - 2 = 24$$

$$21 + 5 - 2 = 24$$

$$24 = 24$$

Hence, the correct answer is Option C

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Question 30

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(8, 6, 9)

- A (3, 3, 6)
- B (2, 1, 3)
- C (5, 2, 3)
- D (4, 2, 6)

Answer: C

Question 31

If in a code language PATNA is coded as 260 and GOA is coded as 69, then how will you code RANCHI?

- A 318
- B 360
- C 135

D 620

Answer: A

Explanation:

Given, PATNA is coded as 260 and GOA is coded as 69 in the code language

$$P + A + T + N + A = 16 + 1 + 20 + 14 + 1 = 52 \rightarrow 52 \times 5 = 260$$

$$G + O + A = 7 + 15 + 1 = 23 \rightarrow 23 \times 3 = 69$$

The logic for the code is sum of the numbers of the letters is multiplied by number of letters of the word

Similarly,

$$R + A + N + C + H + I = 18 + 1 + 14 + 3 + 8 + 9 = 53 \rightarrow 53 \times 6 = 318$$

∴ RANCHI is coded as 318 in the code language

Hence, the correct answer is Option A

Question 32

Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.

A Assemble

B Create

C Construct

D Disband

Answer: D

Explanation:

Assemble, Create, Construct are synonyms and Disband is opposite word to them which means to separate.

∴ Disband is the odd one among the given words

Hence, the correct answer is Option D

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Question 33

Three different positions of the same dice are shown below. Which symbol is on the face opposite the face showing '(' ?



A +

B *

C \$

D #

Answer: A

Explanation:

From the first position of the dice, (is not opposite & and \$

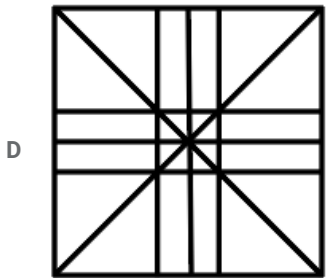
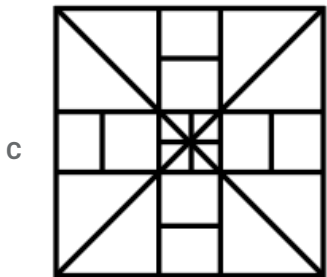
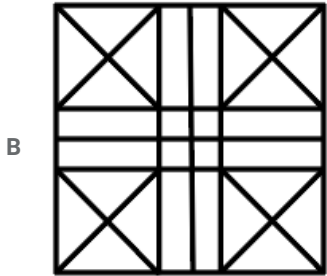
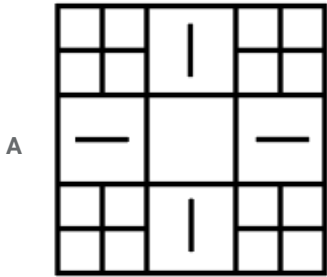
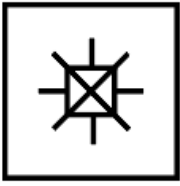
From the second position of the dice, (is not opposite to * and #

⇒ (is opposite to the remaining symbol +

Hence, the correct answer is Option A

Question 34

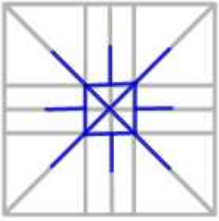
From the given options, select the figure which is embedded in the following figure (rotation is NOT allowed).



Answer: D

Explanation:

The given figure is embedded in the figure 4 as shown below



Hence, the correct answer is Option D

Question 35

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

0, 1, 1, 3, 2, ?, 3, 13, 4, 21

A 7

B 2

C 3

D 0

Answer: A

Explanation:

Given series is alternate number series with the two series are 0, 1, 2, 3, 4 and 1, 3, ?, 13, 21

The difference between the numbers of second series is multiple of 2 when the required number is 7

∴ The required number is 7

Hence, the correct answer is Option A

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Question 36

Select the combination of letters that when sequentially placed in the blanks of the given letter series will complete the series.

a_ _dda_ _cb_ _ _cac_ _da_

A bddcbdac

B bddacbdb

C cbcaddabdc

D bddaccbbdd

Answer: C

Explanation:

By Trial and Error method,

Option A

a**bd**ddad | d**cb**cbdc | ac**ac**dac

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

Option B

a**bd**ddad | **a**cb**cb**dc | **ac**cbda**d**

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

Option C

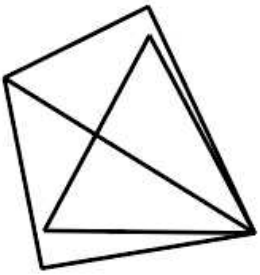
acbddac | acbddac | acbddac

The above letters form a series.

Hence, the correct answer is Option C

Question 37

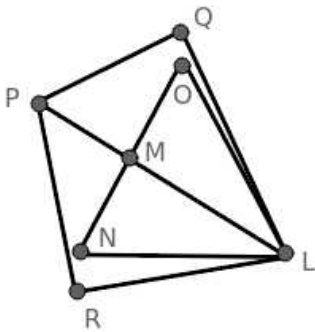
How many triangles are there in the given figure?



- A 3
- B 5
- C 7
- D 6

Answer: B

Explanation:



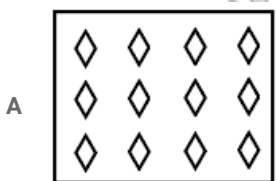
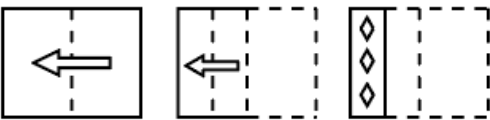
The different triangles in the given figure is LMN, LMO, LNO, LRP, LQP

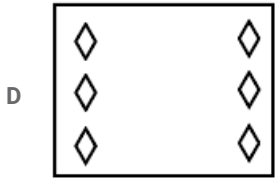
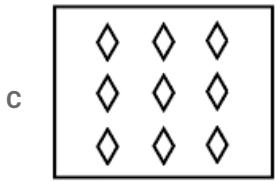
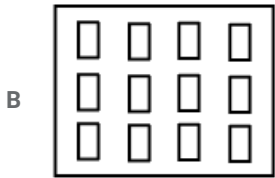
∴ Number of triangles in the given figure = 5

Hence, the correct answer is Option B

Question 38

The sequence of folding a paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?





Answer: A

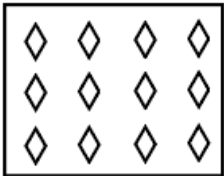
Explanation:

When the paper is unfolded, the pattern of cutting will be similar in the four vertical parts of the paper.

When the paper is unfolded first, the three rhombus will appear on the next right part.

When the paper is unfolded again, the three rhombus will appear on the next two right parts.

∴ When the paper is unfolded it appears as shown below



Hence, the correct answer is Option A

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Question 39

Select the set in which the numbers are related in the same way as are the numbers of the following set.

(6, 18, 162)

A (4, 8, 32)

B (5, 15, 80)

C (4, 12, 34)

D (3, 18, 36)

Answer: A

Explanation:

$$\frac{6^2}{2} = \frac{36}{2} = 18$$

$$\frac{18^2}{2} = \frac{324}{2} = 162$$

Second number is the half of the square of the first number

Third number is the half of the square of the second number

Similarly,

$$\frac{4^2}{2} = \frac{16}{2} = 8$$

$$\frac{8^2}{2} = \frac{64}{2} = 32$$

∴ (4, 8, 32) are related in the same way (6, 18, 162) are related

Hence, the correct answer is Option A

Question 40

Select the option that is related to the third number in the same way as the second number is related to the first number.

3 : 25 :: 1 : ?

A 10

B 6

C 9

D 8

Answer: C

Explanation:

The logic here is

$$(3 + 2)^2 = 5^2 = 25 \rightarrow (\text{first number} + 2)^2 = \text{second number}$$

Similarly,

$$(1 + 2)^2 = 3^2 = 9 \rightarrow (\text{third number} + 2)^2 = \text{fourth number}$$

∴ 9 is related to 1 in the same way 25 is related to 3.

Hence, the correct answer is Option C

Question 41

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.

Statements:

1. Some fishes are horses.

2. Some horses are kites.

Conclusions:

I. Some horses are fishes.

II. Some kites are fishes.

III. Some kites are horses.

A Only conclusions II and IV follow.

B Only conclusions I and II follow.

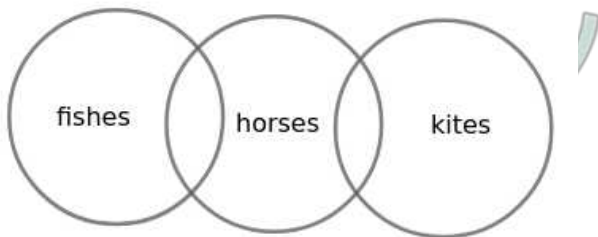
C Only conclusions I and III follow.

D All conclusions I, II and III follow.

Answer: C

Explanation:

The basic diagram for the given statements is



I. Some horses are fishes

From the basic diagram, some horses are fishes. Hence conclusion I follows.

II. Some kites are fishes

From the basic diagram, no kite is fish. Hence conclusion II do not follow.

III. Some kites are horses

From the basic diagram, some kites are horses. Hence conclusion III follows.

∴ Only conclusions I and III follow the given statements

Hence, the correct answer is Option C

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Question 42

Arun is celebrating his birthday today. On his next birthday, he will be twice his age that was 12 years ago. How old is Arun today?

- A 24 years
- B 25 years
- C 26 years
- D 27 years

Answer: B

Explanation:

Let the present age of Arun = a

According to the problem,

$$a + 1 = 2(a - 12)$$

$$a + 1 = 2a - 24$$

$$a = 25$$

∴ Arun is 25 years old today

Hence, the correct answer is Option B

Question 43

Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

PURPLE : OWOTGK :: GREEN : ?

- A FTBBI
- B FTBII
- C FTBJI
- D FTBIJ

Answer: B

Explanation:

P - 1 = O

U + 2 = W

R - 3 = O

P + 4 = T

L - 5 = G

E + 6 = K

Similarly,

G - 1 = F

R + 2 = T

E - 3 = B

E + 4 = I

N - 5 = I

∴ FTBII is related to GREEN in the same way OWOTGK is related to PURPLE

Hence, the correct answer is Option B

Question 44

Four letter clusters have been given, out of which three are alike in some manner and one is different. Select the odd one.

A VXAE

B UQNL

C LNQU

D YADH

Answer: B

Explanation:

In letter clusters VXAE, LNQU, YADH the number of letters between the letters are 1, 2, 3 respectively

In UQNL, the number of letters between the letters are not 1, 2, 3

∴ UQNL is the odd one among the given letter clusters

Hence, the correct answer is Option B

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Question 45

A is husband of M who is sister-in-law of N. N is daughter of R and U. M is daughter-in-law of U. How A is related to U?

A Father

B Son

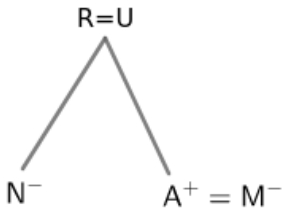
C Brother-in-law

D Brother

Answer: B

Explanation:

According to the problem, the family tree is

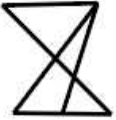


∴ A is the son of U

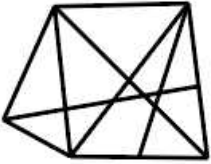
Hence, the correct answer is Option B

Question 46

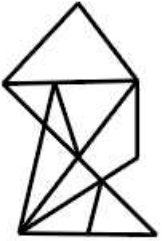
Select the option in which the given figure is embedded. (Rotation is not allowed)



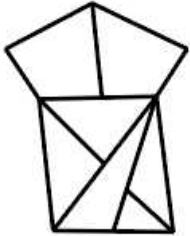
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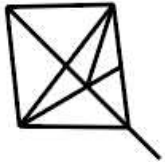
B



C



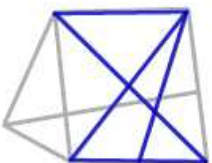
D



Answer: A

Explanation:

The given figure is embedded in figure 1 as shown below



Hence, the correct answer is Option A

Question 47

In certain code language, 'STYLE' is written as '181924114'. How would 'FIRST' be written in the same code language.

- A 58181920
- B 69181920
- C 58171819
- D 58171820

Answer: C

Explanation:

Given, 'STYLE' is written as '181924114'

STYLE → 18 19 24 11 4

S = 19

T = 20

Y = 25

L = 12

E = 5

The logic for the code is the respective value of letters is decreased by 1

Similarly,

F = 6

I = 9

R = 18

S = 19

T = 20

∴ FIRST is written as 58171819 in the code language

Hence, the correct answer is Option C

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Question 48

Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd one.

- A MOW
- B CUX
- C ABY
- D BIZ

Answer: C

Explanation:

In MOW, CUX, BIZ the middle letter is a vowel whereas the middle letter of ABY is a consonant

∴ ABY is the odd one among the given letter-clusters

Hence, the correct answer is Option C

Question 49

In a certain code language, TIGER is written as ROEIP. How will LION be written as in that language?

- A JOUR
- B JOIL
- C JOMR
- D JOUL

Answer: C

Explanation:

Given, TIGER is written as ROEIP in the code language

$$T - 2 = R$$

$$I + 6 = O$$

$$G - 2 = E$$

$$E + 4 = I$$

$$R - 2 = P$$

Similarly,

$$L - 2 = J$$

$$I + 6 = O$$

$$O - 2 = M$$

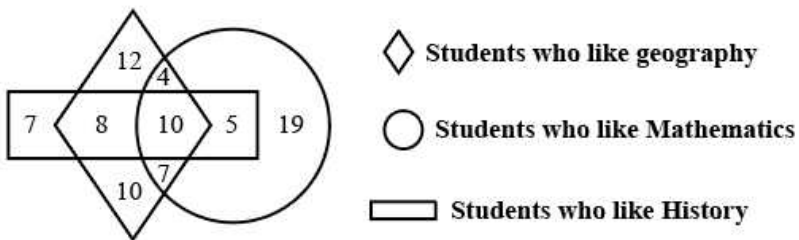
$$N + 4 = R$$

∴ LION is written as JOMR in the code language

Hence, the correct answer is Option C

Question 50

Consider the following diagram.



How many students like both geography and mathematics but NOT history?

- A 21
- B 4
- C 7
- D 11

Answer: D

Explanation:

From the diagram,

Number of students like both geography and mathematics but not history = Intersection of Rhombus and Circle but not Rectangle = $4 + 7 = 11$

Hence, the correct answer is Option D

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Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

Question 51

Find the value of x in $\sqrt[3]{15625} - \sqrt{x} = 4$

A 343

B 441

C 625

D 81

Answer: B

Explanation:

$$\sqrt[3]{15625} - \sqrt{x} = 4$$

$$\Rightarrow \sqrt{(25)^3} - \sqrt{x} = 4$$

$$\Rightarrow 25 - \sqrt{x} = 4$$

$$\Rightarrow \sqrt{x} = 25 - 4$$

$$\Rightarrow \sqrt{x} = 21$$

$$\Rightarrow x = 21^2$$

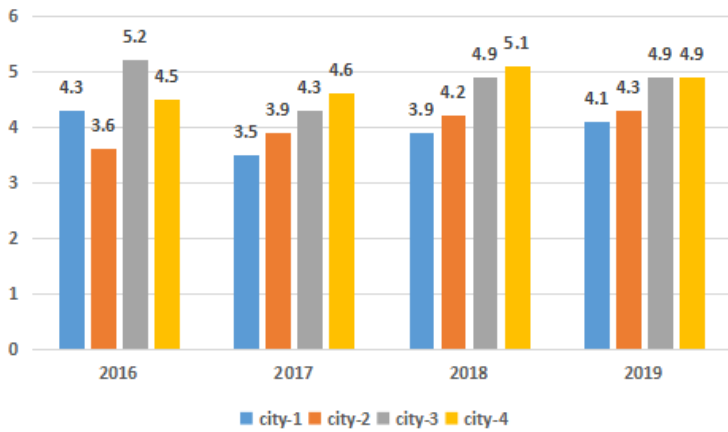
$$\Rightarrow x = 441$$

Hence, the correct answer is Option B

SSC CGL Free Mock Test (Latest Pattern)

Question 52

The following graph shows the sales of cars (in thousands) in four cities in 4 years. Study the graph and answer the question.



	2016	2017	2018	2019
city-1	4.3	3.5	3.9	4.1
city-2	3.6	3.9	4.2	4.3
city-3	5.2	4.3	4.9	4.9
city-4	4.5	4.6	5.1	4.9

In 2019, what is the average number of sales among all four cities?

- A 4178
- B 3980
- C 4280
- D 4550

Answer: D

Explanation:

From the graph,

In 2019, the average number of sales among all four cities = $\frac{4100+4300+4900+4900}{4} = \frac{8200}{4} = 4550$

Hence, the correct answer is Option D

Question 53

An athlete crosses a distance of 900 m in 10 minutes. What is his speed in km per hour?

- A 5.4 km/h
- B 6.9 km/h
- C 3.6 km/h
- D 4.8 km/h

Answer: A

Explanation:

Given, Distance = 900 m

Time = 10 min = 10 x 60 sec = 600 sec

Speed = $\frac{\text{Distance}}{\text{Time}} = \frac{900}{600} = \frac{3}{2} \text{ m/sec} = \frac{3}{2} \times \frac{18}{5} \text{ km/h} = \frac{27}{5} \text{ km/h} = 5.4 \text{ km/h}$

Hence, the correct answer is Option A

Question 54

The largest five-digit number that is exactly divisible by 81 is:

- A 99954
- B 99876
- C 99989
- D 99991

Answer: A

Explanation:

Largest five-digit number = 99999

When 99999 is divided by 81, the remainder is 45

∴ The largest five digit number which is exactly divisible by 81 = 99999-45 = 99954

Hence, the correct answer is Option A

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

The average of 5 consecutive odd numbers is 75. By adding which number, will the average become 76?

- A 77
- B 79
- C 81
- D 76

Answer: C

Explanation:

Given, Average of 5 consecutive odd numbers = 75

⇒ Sum of 5 consecutive odd numbers = $75 \times 5 = 375$

Let the number which is to be added = a

Average of 6 numbers = 76

⇒ $\frac{375+a}{6} = 76$

⇒ $375 + a = 76 \times 6$

⇒ $a = 456 - 375$

⇒ $a = 81$

∴ The number which is to be added = 81

Hence, the correct answer is Option C

Question 56

Two numbers are respectively 25% and 65% more than a third number. The ratio of the two numbers is:

- A 16 : 17
- B 25 : 42

C 25 : 33

D 16 : 19

Answer: C

Explanation:

Let the third number = a

Given,

First number is 25% more than third number

$$\Rightarrow \text{First number} = \frac{125}{100} a$$

Second number is 65% more than third number

$$\Rightarrow \text{Second number} = \frac{165}{100} a$$

$$\therefore \text{Ratio of first and second number} = \frac{125}{100} a : \frac{165}{100} a = 25 : 33$$

Hence, the correct answer is Option C

Question 57

If in any triangle, the angles are in the ratio of 1 : 2 : 1, then what will be the ratio of its sides?

A 2 : 1 : 2

B 1 : 2 : 3

C $1 : \sqrt{2} : 1$

D 1 : 2 : 1

Answer: C

Explanation:

Given, ratio of the angles of the triangle = 1 : 2 : 1

Let the angles of the triangle are $1p, 2p, 1p$ respectively

$$\Rightarrow 1p + 2p + 1p = 180^\circ$$

$$\Rightarrow 4p = 180^\circ$$

$$\Rightarrow 1p = 45^\circ$$

\therefore The angles of the triangle are $45^\circ, 90^\circ, 45^\circ$

The triangle is an isosceles right angled triangle

$$\Rightarrow \text{The ratio of the sides of the triangle are } 1 : \sqrt{2} : 1$$

Hence, the correct answer is Option C

SSC CHSL Study Material

Question 58

An article was marked at ₹ x and sold at a discount of $(x-40)\%$. If the customer paid ₹ $(x-32)$, then find the marked price of the article.

A ₹60

B ₹50

C ₹75

D ₹80

Answer: D

Explanation:

Given,

Marked price of the article = ₹ x

Discount% = $(x-40)\%$

Selling price = ₹ $(x-32)$

$$\Rightarrow x - \frac{(x-40)}{100} \times x = x - 32$$

$$\Rightarrow 100x - (x-40)x = 100x - 3200$$

$$\Rightarrow -x^2 + 40x = -3200$$

$$\Rightarrow x^2 - 40x - 3200 = 0$$

$$\Rightarrow x^2 - 80x + 40x - 3200 = 0$$

$$\Rightarrow x(x-80) + 40(x-80) = 0$$

$$\Rightarrow (x-80)(x+40) = 0$$

$$\Rightarrow x-80 = 0 \text{ or } x+40 = 0$$

$$\Rightarrow x = 80 \text{ or } x = -40$$

x cannot be negative

$$\Rightarrow x = ₹80$$

∴ Marked price of the article = $x = ₹80$

Hence, the correct answer is Option D

Question 59

If $\sin x + \operatorname{cosec} x = 2$, then $\sin^{17} x + \operatorname{cosec}^{18} x$ is equal to:

A 0

B 1

C 2

D 4

Answer: C

Explanation:

$$\sin x + \operatorname{cosec} x = 2$$

$$\Rightarrow \sin x + \frac{1}{\sin x} = 2$$

$$\Rightarrow \sin^2 x + 1 = 2 \sin x$$

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

$$\Rightarrow (\sin x - 1)^2 = 0$$

$$\Rightarrow \sin x - 1 = 0$$

$$\Rightarrow \sin x = 1$$

$$\Rightarrow \frac{1}{\operatorname{cosec} x} = 1$$

$$\Rightarrow \operatorname{cosec} x = 1$$

$$\therefore \sin^{17} x + \operatorname{cosec}^{18} x = (1)^{17} + (1)^{18} = 1 + 1 = 2$$

Hence, the correct answer is Option C

Question 60

Find the simple interest on ₹74,000 at $18\frac{2}{3}\%$ per annum for a period of 8 months?

- A ₹9,486.32
- B ₹8,956.74
- C ₹9,208.88
- D ₹8,458.96

Answer: C

Explanation:

Given, Principal amount (P) = ₹74,000

Rate of interest (R) = $18\frac{2}{3}\%$ per annum

$$= \frac{56}{3}\% \text{ per annum}$$

$$= 3 \times 12\% \text{ per month}$$

Time (T) = 8 months

$$\therefore \text{Simple Interest} = \frac{PTR}{100} = \frac{74000 \times 8 \times 56}{100 \times 3 \times 12} = ₹9208.88$$

Hence, the correct answer is Option C

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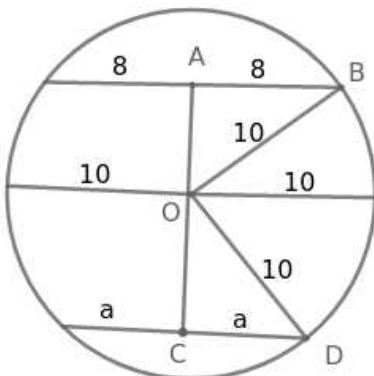
Question 61

Two parallel chords are drawn in a circle of diameter 20 cm. The length of one chord is 16 cm and the distance between the two chords is 12 cm. The length of the other chord is:

- A 20 cm
- B 18 cm
- C 16 cm
- D 12 cm

Answer: C

Explanation:



Given,

Diameter of the circle = 20 cm

Radius of the circle = 10 cm

Distance between two chords = AC = 12 cm

Let the length of the other chord = 2a

From $\triangle OAB$,

$$OA^2 + AB^2 = OB^2$$

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

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

$$\Rightarrow OA^2 = 36$$

$$\Rightarrow OA = 6$$

$$OC = AC - OA = 12 - 6 = 6 \text{ cm}$$

From $\triangle OCD$,

$$OC^2 + CD^2 = OD^2$$

$$\Rightarrow 6^2 + a^2 = 10^2$$

$$\Rightarrow 36 + a^2 = 100$$

$$\Rightarrow a^2 = 64$$

$$\Rightarrow a = 8 \text{ cm}$$

\therefore Length of the second chord = $2a = 2(8) = 16 \text{ cm}$

Hence, the correct answer is Option C

Question 62

If $x + \frac{1}{x} = 8$, then find the value of $\frac{5x}{x^2+1-6x}$

A 6

B 2.5

C 5

D 6.5

Answer: B

Explanation:

$$\text{Given, } x + \frac{1}{x} = 8$$

$$\Rightarrow x^2 + 1 = 8x \text{(1)}$$

$$\therefore \frac{5x}{x^2+1-6x} = \frac{5x}{(x^2+1)-6x} = \frac{5x}{8x-6x} = \frac{5x}{2x} = 2.5$$

Hence, the correct answer is Option B

Question 63

If $x = 255$, $y = 256$, $z = 257$, then find the value of $x^3 + y^3 + z^3 - 3xyz$.

A 1378

B 1984

C 1876

D 2304

Answer: D

Explanation:

Given, $x = 255$, $y = 256$, $z = 257$

$$\begin{aligned}x^3 + y^3 + z^3 - 3xyz &= (x + y + z)(x^2 + y^2 + z^2 - xy - yz - zx) \\&= \frac{1}{2}(x + y + z)(2x^2 + 2y^2 + 2z^2 - 2xy - 2yz - 2zx) \\&= \frac{(x+y+z)}{2} [(x-y)^2 + (y-z)^2 + (z-x)^2] \\&= \frac{(255+256+257)}{2} [(255-256)^2 + (256-257)^2 + (257-255)^2] \\&= \frac{768}{2} [1 + 1 + 4] \\&= \frac{768}{2} [6] \\&= 2304\end{aligned}$$

Hence, the correct answer is Option D

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Question 64

Find x if $\cos x = -\frac{1}{2}$, $\frac{\pi}{4} < x < \pi$

A $\frac{3\pi}{2}$

B $\frac{4\pi}{3}$

C $\frac{5\pi}{2}$

D $\frac{2\pi}{3}$

Answer: D

Explanation:

Given, $\cos x = -\frac{1}{2}$

$$\Rightarrow x = \frac{2\pi}{3}, \frac{4\pi}{3}$$

Since $\frac{\pi}{4} < x < \pi$

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

Hence, the correct answer is Option D

Question 65

The perimeter and length of a rectangle are in the ratio of 8 : 1, and the area of the rectangle is 1323cm^2 . Find the length of the rectangle.

A 25 cm

B 21 cm

C 22 cm

D 23 cm

Answer: B

Explanation:

Let the length and breadth of rectangle of rectangle are l and b respectively

Given, Ratio of perimeter and length of the rectangle = 8 : 1

$$\Rightarrow \frac{2(l+b)}{l} = 8$$

$$\Rightarrow \frac{l+b}{l} = 4$$

$$\Rightarrow l + b = 4l$$

$$\Rightarrow b = 3l \dots\dots\dots(1)$$

Area of the rectangle = 1323cm^2

$$\Rightarrow lb = 1323$$

$$\Rightarrow l(3l) = 1323$$

$$\Rightarrow 3l^2 = 1323$$

$$\Rightarrow l^2 = 441$$

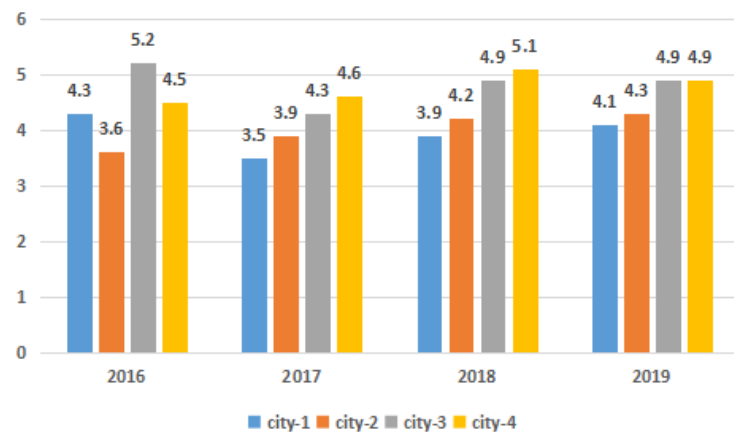
$$\Rightarrow l = 21 \text{ cm}$$

\therefore Length of the rectangle = 21 cm

Hence, the correct answer is Option B

Instructions

The following graph shows the sales of cars (in thousands) in four cities in 4 years. Study the graph and answer the question.



	2016	2017	2018	2019
city-1	4.3	3.5	3.9	4.1
city-2	3.6	3.9	4.2	4.3
city-3	5.2	4.3	4.9	4.9
city-4	4.5	4.6	5.1	4.9

Question 66

In which year, the sales are highest?

- A 2017
- B 2016
- C 2019
- D 2018

Answer: C

Explanation:

Sales in 2016 = $4.3+3.6+5.2+4.5 = 17.6$

Sales in 2017 = $3.5+3.9+4.3+4.6 = 16.3$

Sales in 2018 = $3.9+4.2+4.9+5.1 = 18.1$

Sales in 2019 = $4.1+4.3+4.9+4.9 = 18.2$

∴ The sales are highest in the year 2019

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Question 67

Which city has the highest percentage of sales, and in which year?

- A City-3; 2016
- B City-1; 2019
- C City-4; 2017
- D City-2; 2018

Answer: A

Explanation:

Percentage of sales in City-3 in 2016 = $\frac{5.2}{4.3+3.6+5.2+4.5} \times 100 = \frac{5.2}{17.6} \times 100 = 29.5\%$

Percentage of sales in City-1 in 2019 = $\frac{4.1}{4.1+4.3+4.9+4.9} \times 100 = \frac{4.1}{18.2} \times 100 = 22.5\%$

Percentage of sales in City-4 in 2017 = $\frac{4.6}{3.5+3.9+4.3+4.6} \times 100 = \frac{4.6}{16.3} \times 100 = 28.2\%$

Percentage of sales in City-2 in 2018 = $\frac{4.2}{3.9+4.2+4.9+5.1} \times 100 = \frac{4.2}{18.1} \times 100 = 23.2\%$

∴ The percentage sales in City-3 in 2016 is highest

Hence, the correct answer is Option A

Question 68

Which city has the highest sales?

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

Answer: A

Explanation:

Total sales of City-1 = $4.3+3.5+3.9+4.1 = 15.8$

Total sales of City-2 = $3.6+3.9+4.2+4.3 = 16$

Total sales of City-3 = $5.2+4.3+4.9+4.9 = 19.3$

Total sales of City-4 = $4.5+4.6+5.1+4.9 = 19.1$

∴ Total sales of City-3 is highest

Hence, the correct answer is Option A

Instructions

For the following questions answer them individually

Question 69

If $\sin \theta - \cos \theta = \frac{7}{17}$, then find the value of $\sin \theta + \cos \theta$.

A $\frac{8}{13}$

B $\frac{23}{17}$

C $\frac{23}{13}$

D $\frac{8}{17}$

Answer: B

Explanation:

Given, $\sin \theta - \cos \theta = \frac{7}{17}$

$$\Rightarrow (\sin \theta - \cos \theta)^2 = \left(\frac{7}{17}\right)^2$$

$$\Rightarrow \sin^2 \theta + \cos^2 \theta - 2 \sin \theta \cos \theta = \frac{49}{289}$$

$$\Rightarrow 1 - 2 \sin \theta \cos \theta = \frac{49}{289}$$

$$\Rightarrow 2 \sin \theta \cos \theta = 1 - \frac{49}{289}$$

$$\Rightarrow 2 \sin \theta \cos \theta = \frac{240}{289}$$

$$\Rightarrow 1 + 2 \sin \theta \cos \theta = 1 + \frac{240}{289}$$

$$\Rightarrow \sin^2 \theta + \cos^2 \theta + 2 \sin \theta \cos \theta = \frac{529}{289}$$

$$\Rightarrow (\sin \theta + \cos \theta)^2 = \left(\frac{23}{17}\right)^2$$

$$\Rightarrow \sin \theta + \cos \theta = \frac{23}{17}$$

Hence, the correct answer is Option B

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Question 70

A man buys an article for ₹3,200 and sells it at a loss of 12%. What is the selling price of the article?

A ₹3,012

B ₹2,816

C ₹2,856

D ₹3,428

Answer: B

Explanation:

Given, Cost Price (C.P) = ₹3,200

Loss% = 12%

$$\Rightarrow \text{Loss} = \frac{12}{100} \times 3200 = ₹384$$

$$\therefore \text{Selling Price (S.P)} = \text{C.P} - \text{loss} = 3200 - 384 = ₹2816$$

Hence, the correct answer is Option B

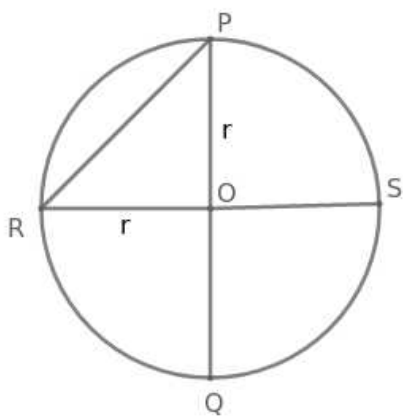
Question 71

In a circle, PQ and RS are two diameters that are perpendicular to each other. Find the length of the chord PR.

- A $\frac{PQ}{2}$
- B $\sqrt{2}PQ$
- C $2PQ$
- D $\frac{PQ}{\sqrt{2}}$

Answer: D

Explanation:



Let the radius of the circle = r

PQ and RS are two diameters that are perpendicular to each other

$$\Rightarrow PQ = RS = 2r$$

$$\Rightarrow r = \frac{PQ}{2}$$

In $\triangle OPR$,

$$PR^2 = OR^2 + OP^2$$

$$\Rightarrow PR^2 = r^2 + r^2$$

$$\Rightarrow PR^2 = 2r^2$$

$$\Rightarrow PR = \sqrt{2}r$$

$$\Rightarrow PR = \sqrt{2} \times \frac{PQ}{2}$$

$$\Rightarrow PR = \frac{PQ}{\sqrt{2}}$$

Hence, the correct answer is Option D

Question 72

Ramu works 4 times as fast as Somu. If Somu can complete a work in 20 days independently, then the number of days in which Ramu and Somu together can complete the work is:

- A 4 days
- B 5 days
- C 3 days

D 6 days

Answer: A

Explanation:

Number of days required for Somu to complete work = 20 days

Ramu works 4 times as fast as Somu

\Rightarrow Number of days required for Ramu to complete work = $\frac{20}{4} = 5$ days

Let the Total Work = W

Work done by Ramu in 1 day = $\frac{W}{5}$

Work done by Somu in 1 day = $\frac{W}{20}$

Work done by Ramu and Somu in 1 day = $\frac{W}{5} + \frac{W}{20} = \frac{5W}{20} = \frac{W}{4}$

Number of days required for both Ramu and Somu together to complete work = $\frac{W}{\frac{W}{4}} = 4$ days

Hence, the correct answer is Option A

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Question 73

Sachin scored 120 runs, which included 6 boundaries and 4 sixes. What percentage of his total score did he make by running between the wickets?

A 45

B $46\frac{4}{9}$

C 60

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

Answer: C

Explanation:

Total runs scored by Sachin = 120

Runs scored in boundaries = $(6 \times 4) + (4 \times 6) = 24 + 24 = 48$

Runs scored by running between wickets = $120 - 48 = 72$

\therefore Required Percentage = $\frac{72}{120} \times 100 = 60\%$

Hence, the correct answer is Option C

Question 74

If $a + b = 27$ and $a^3 + b^3 = 5427$, then find ab .

A 143

B 135

C 176

D 149

Answer: C

Explanation:

Given, $a + b = 27$

$$a^3 + b^3 = 5427$$

$$\Rightarrow (a + b)(a^2 + b^2 - ab) = 5427$$

$$\Rightarrow 27(a^2 + b^2 + 2ab - 3ab) = 5427$$

$$\Rightarrow (a + b)^2 - 3ab = 201$$

$$\Rightarrow (27)^2 - 3ab = 201$$

$$\Rightarrow 729 - 3ab = 201$$

$$\Rightarrow 3ab = 729 - 201$$

$$\Rightarrow 3ab = 528$$

$$\Rightarrow ab = 176$$

Hence, the correct answer is Option C

Question 75

Find the area of an equilateral triangle whose sides are 12 cm.

A $29\sqrt{5}$

B $45\sqrt{2}$

C 38

D $36\sqrt{3}$

Answer: D

Explanation:

Given, side of the equilateral triangle (a) = 12 cm

$$\therefore \text{Area of the equilateral triangle} = \frac{\sqrt{3}}{4} a^2 = \frac{\sqrt{3}}{4} (12)^2 = 36\sqrt{3}$$

Hence, the correct answer is Option D

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General Awareness

Instructions

For the following questions answer them individually

Question 76

The inner walls of small intestine have thousands of finger-like outgrowths. These are called:

A Benign

B Myomas

C Lumps

D Villi

Answer: D

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Question 77

What was the rank of the Indian passport in the world as per 'Henley Passport Index 2020'?

- A 74th
- B 84th
- C 38th
- D 26th

Answer: B

Question 78

An industrial economy is best defined as an economy whose 50% or more produce value comes from the ____ sector.

- A primary
- B banking
- C tertiary
- D secondary

Answer: D

Question 79

Which of the following is a system designed to transmit information between electronic musical instruments?

- A MIDI devices
- B Optical Mark Reader
- C Bar code reader
- D Visual Display Unit

Answer: A

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Question 80

Which of the following gases is referred to as 'laughing gas'?

- A Carbon dioxide
- B Carbon monoxide
- C Nitrous Oxide
- D Sulfur dioxide

Answer: C

Question 81

The election to constitute a Panchayat should be completed before the expiration of a period of ____ from the date of its dissolution.

- A one year
- B two months
- C six months
- D eight months

Answer: C

Question 82

Since the clinical thermometer is designed to measure the temperature of the human body only, it displays the range of 35°C to _____.

- A 46°C
- B 48°C
- C 44°C
- D 42°C

Answer: D

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Question 83

Who among the following is NOT one of the Indian Chess Grandmasters?

- A Prithu Gupta
- B Koneru Humpy
- C Rani Rampal
- D D Harika

Answer: C

Question 84

Who among the following was conferred with 29th Saraswati Samman for his short stories collection called 'Chequebook'?

- A K Siva Reddy
- B SL Bhyrappa
- C Vasdev Mohi
- D Govind Mishra

Answer: C

Question 85

As of January 2020, who among the following became the first Indian female para-athlete and the oldest to be honoured with the 'Rajiv Gandhi Khel Ratna award'?

- A Ramya Shanmugham
- B Karamjyoti Dalal
- C Deepa Malik
- D Manasi Joshi

Answer: C

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Question 86

As of January 2020, who among the following is the Chairman of UPSC?

- A Gurbachan Jagat
- B David R Syiemlieh
- C Arvind Saxena
- D PC Hota

Answer: C

Question 87

Who among the following won the 'Man of the Series' award in the three-match ODI series played between India and Australia in January 2020?

- A Mitchell Starc
- B Virat Kohli
- C David Warner
- D Jasprit Bumrah

Answer: B

Question 88

'Ganga Sagar Mela' is celebrated on the occasion of Makar Sankranti from 13 to 15 January every year in:

- A West Bengal
- B Uttar Pradesh
- C Uttarakhand
- D Bihar

Answer: A

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

'Avesta', also called 'Zend-Avesta', is the sacred book of:

- A Jainism
- B Buddhism
- C Zoroastrianism
- D Judaism

Answer: C

Question 90

India and China were engaged in a territorial dispute over Doklam in 2017. Doklam area is situated at the corner of the _____ tri-junction.

- A Bhutan, Arunachal Pradesh and China
- B Pakistan, Jammu & Kashmir and China
- C Bhutan, Sikkim and China
- D Bhutan, West Bengal and China

Answer: C

Question 91

Which of the following articles of the Constitution of India provides constitutional remedies for the enforcement of fundamental rights?

- A Article 36
- B Article 32
- C Article 38
- D Article 40

Answer: B

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Question 92

Which of the following is an input device used to enter motion data into computers or other electronic devices?

- A Plotter
- B Trackball
- C Monitor
- D Joystick

Answer: B

Question 93

Which of the following Himalayan ranges extends from the northern side of Leh to the Tibetan border and comprises Digar La Pass and Khardung La Pass?

- A Ladakh Range
- B Pir Panjal Range
- C Dhauladhar Range
- D Zaskar Range

Answer: A

Question 94

UNDP's 'Human Development Report' (HDR) measures development by combining which of the following three indicators?

- A Health, education and standard of living
- B Health, education and average salary
- C Health, industrial growth and standard of living
- D Health, education and agricultural growth

Answer: A

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Question 95

Who among the following scripted history by becoming the second Indian male shuttler after Prakash Padukone to win the title of 'BWF Badminton World Championships' in August 2019?

- A B. Sai Praneeth
- B Ajay Jayaram
- C H S Prannoy
- D Kidambi Srikanth

Answer: A

Question 96

Which of the following nation's parliament passed a bill designating all United States military forces as terrorists on 7 January 2020?

- A North Korea
- B Iran
- C Iraq
- D Cuba

Answer: B

Question 97

As per Census 2011, which of the following is the most thickly populated state in India?

- A Bihar

- B Maharashtra
- C West Bengal
- D Goa

Answer: A

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Question 98

In which color are the railway lines and telephone lines shown in the topographic map?

- A Yellow
- B Blue
- C Black
- D Red

Answer: C

Question 99

Who among the following was popularly known as 'Frontier Gandhi'?

- A Maulana Abul Kalam Azad
- B Hasrat Mohani
- C Abdul Ghaffar Khan
- D Ashfaqulla Khan

Answer: C

Question 100

During India's struggle for independence, who among the following became the President of the All India States People's Conference in 1939?

- A Jawaharlal Nehru
- B C Rajagopalachari
- C Shyama Prasad Mukherjee
- D Vinoba Bhave

Answer: A

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