



SSC CHSL 19th October 2020 Shift-2

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English Language (Basic Knowledge)

Instructions

For the following questions answer them individually

Question 1

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

A period of one thousand years

- A Century
- B Millennium
- C Centenary
- D Decade

Answer: B

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Question 2

Select the correct indirect form of the given sentence.

Mother said to Kavya, "Switch off the light before you go to sleep."

- A Mother told Kavya to switch off the light before you go to sleep.
- B Mother told Kavya to switch off the light before she is going to sleep.
- C Mother told Kavya to switch off the light before she goes to sleep.
- D Mother told Kavya to switch off the light before she went to sleep.

Answer: D

Question 3

Select the most appropriate meaning of the given idiom.

Look before you leap

- A Caution others before taking a step
- B Prepare yourself before jumping
- C Think carefully of the consequences
- D Pull someone out from a disaster

Answer: C

Question 4

Select the most appropriate ANTONYM of the given word.

SACRED

- A Solemn
- B Divine
- C Profane

D Pious

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.

Roman civilization emerged around the sixth century BC. At the height of (1)_____ power, the Roman Empire ruled over a huge chunk of (2)_____, and all the present-day Mediterranean countries (3)_____ part of ancient Rome. Early Rome was (4)_____ by kings, but later, the people took control over their own city and ruled (5)_____. They introduced a council known as the Senate which ruled over them. From this point, Rome was referred to as the Roman Republic.

Question 5

Select the most appropriate option for blank number 1.

A one's

B its

C their

D his

Answer: B

Question 6

Select the most appropriate option for blank number 2.

A islands

B land

C sea

D country

Answer: B

Question 7

Select the most appropriate option for blank number 3.

A were

B have

C had

D are

Answer: A

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Question 8

Select the most appropriate option for blank number 4.

- A conducted
- B controlled
- C governed
- D regulated

Answer: C

Question 9

Select the most appropriate option for blank number 5.

- A ourselves
- B themselves
- C himself
- D yourself

Answer: B

Instructions

For the following questions answer them individually

Question 10

Select the most appropriate synonym of the given word.

MOROSE

- A Cheerful
- B Optimistic
- C Sullen
- D Friendly

Answer: C

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Question 11

In the given sentence, identify the segment which contains a grammatical error.

All these boys have come to college without few knowledge of English.

- A of English
- B without few knowledge
- C have come to college
- D All these boys

Answer: B

Question 12

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 house has a garden in front, is it?

- A isn't it
- B hasn't it
- C does it
- D No improvement

Answer: B

Question 13

Select the most appropriate meaning of the given idiom.

Chill out

- A To be nervous
- B To fight
- C To calm down
- D To be angry

Answer: C

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Question 14

Select the most appropriate word to fill in the blank.

The important _____ is where to arrange the funds from.

- A issue
- B result
- C solution
- D view

Answer: A

Question 15

Select the most appropriate synonym of the given word.

AFFLUENT

- A Wealthy
- B Destitute
- C Impoverished
- D Proficient

Answer: A

Question 16

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

A plantation of grapes

- A VineyardNursery
- B Nursery
- C Orchard
- D Grove

Answer: A

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Question 17

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'.

Many attempts has been made to climb the Everest before Tenzing and Hillary succeeded.

- A have been made
- B was made
- C No improvement
- D had been made

Answer: D

Question 18

Select the most appropriate word to fill in the blank.

Several villages in Kashmir have been _____ due to heavy snowfall.

- A divided
- B isolated
- C confined
- D engaged

Answer: B

Question 19

Select the INCORRECTLY spelt word.

- A Tedious
- B Advantageous
- C Victorious
- D Rebelleous

Answer: D

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Question 20

In the given sentence, identify the segment which contains a grammatical error.
Everyone are asking for passes to the music festival at Nehru Park.

- A Everyone are asking
- B to the music festival
- C for passes
- D at Nehru Park.

Answer: A

Question 21

Select the INCORRECTLY spelt word.

- A Irrelevant
- B Irrilegious
- C Irritable
- D Irrigate

Answer: B

Question 22

Select the correct passive form of the given sentence.

He spent a lot of money on movies.

- A A lot of money is spent by him on movies.
- B A lot of money was spent by him on movies.
- C A lot of money was being spent by him on movies.
- D A lot of money had been spent by him on movies.

Answer: B

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Question 23

Select the most appropriate ANTONYM of the given word.
PERISH

- A Wither
- B Crumble
- C Grow

- D Vanish
Answer: C

Question 24

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

- A. When he returned, there was more than just his dog waiting for him.
- B. A koala had joined the dog in the car's more comfortable climate.
- C. A winemaker in South Australia left his air-conditioned car open to help keep his dog cool in the heat.
- D. Although the human struggled a while to make the koala leave, it did leave his car eventually.

- A CABD
- B CBAD
- C BACD
- D BCDA

Answer: A

Question 25

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

- A. People in a small Chinese town were shocked to see a wild elephant wandering in their town.
- B. The elephant eventually left the town.
- C. Authorities followed the large mammal's every movement.
- D. But the locals will probably never forget this special visit.

- A CABD
- B ACBD
- C ABDC
- D BDAC

Answer: B

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General Intelligence

Instructions

For the following questions answer them individually

Question 26

Arrange the following names in a logical and meaningful order.

- 1. Socks
- 2. Necktie
- 3. Belt
- 4. Spectacle
- 5. Armlet

- A 4-2-3-1-5
- B 4-3-2-5-1
- C 4-2-5-3-1

D 4-2-3-5-1

Answer: C

Explanation:

Spectacle is used for eyes.

Necktie is used around neck.

Armlet is used around arm.

Belt is used around waist.

Socks are used for legs.

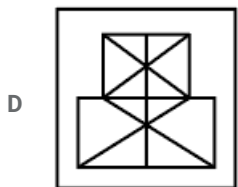
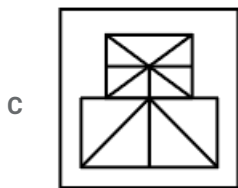
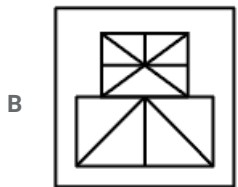
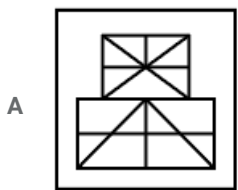
∴ The logical and meaningful order from top to bottom of human body is Spectacle, Necktie, Armlet, Belt, Socks.

Hence, the correct answer is Option C

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Question 27

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



Answer: C

Explanation:

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



Hence, the correct answer is Option C

Question 28

In certain code language, GOGGLE is written as IMIENC. How will PENCIL be written as in that language?

- A RCPAKJ
- B RGPEKN
- C NCLAGJ
- D NGLEGN

Answer: A

Explanation:

Given, GOGGLE is written as IMIENC in the code language

The logic here is

7	15	7	7	12	5
G	O	G	G	L	E
+2	-2	+2	-2	+2	-2
I	M	I	E	N	C
9	13	9	5	14	3

Similarly,

16	5	14	3	9	12
P	E	N	C	I	L
+2	-2	+2	-2	+2	-2
R	C	P	A	K	J
18	3	16	1	11	10

∴ PENCIL is written as RCPAKJ in the code language

Hence, the correct answer is Option A

Question 29

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

80, 79, 75, 66, ?, 25

- A 46
- B 57

C 50

D 54

Answer: C

Explanation:

Given series is 80, 79, 75, 66, ?, 25

The logic here is

$$80 - 79 = 1 = 1^2$$

$$79 - 75 = 4 = 2^2$$

$$75 - 66 = 9 = 3^2$$

The difference between the numbers of the series is the square of natural numbers.

The next difference will be $4^2 = 16$.

Let the required number = a

$$\Rightarrow 66 - a = 16$$

$$\Rightarrow a = 50$$

\therefore Required number = 50

Hence, the correct answer is Option C

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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.

MAKE : AEKM :: JUST :

A UJTS

B UTSS

C JSTU

D UTJS

Answer: C

Explanation:

MAKE \rightarrow AEKM

The second term is obtained from the first term by the arranging the letters of the first term in the alphabetical order.

Similarly, the fourth term will be obtained from the third term by the arranging the letters of the third term in the alphabetical order.

\Rightarrow The fourth term is JSTU.

\therefore JSTU is related to JUST in the same way AEKM is related to MAKE.

Hence, the correct answer is Option C

Question 31

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.

JAPAN : NAQAJ :: INDIA : ?

A NIEAI

- B AIENI
- C DNIAI
- D AIDNI

Answer: B

Explanation:

JAPAN \rightarrow NAQAJ

The logic here is

The first and last letter are interchanged. The second and fourth letter are interchanged. The third letter is increased by 1.

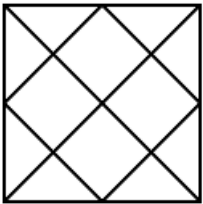
Similarly, the fourth letter-cluster will be AIENI.

\therefore AIENI is related to INDIA in the same way NAQAJ is related to JAPAN.

Hence, the correct answer is Option B

Question 32

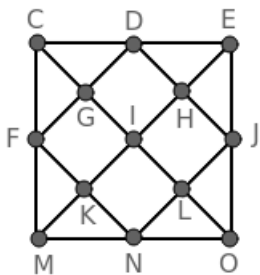
How many triangles are present in the following figure?



- A 20
- B 16
- C 22
- D 18

Answer: A

Explanation:



The different triangles in the given figure are CFG, CDG, DHE, EHJ, JLO, OLN, NKM, MKF, FCD, DEJ, JON, NMF, CIM, CIE, OIE, OIM, CMO, CEO, EMC, EMO

\therefore Number of triangles in the given figure = 20

Hence, the correct answer is Option A

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Question 33

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

(26, 144, 18)

A (28, 190, 16)

B (21, 108, 12)

C (32, 196, 24)

D (18, 120, 13)

Answer: B

Explanation:

Decoding the given question,

(26, 144, 18)

here $(26-18) \times 18=144$

$8 \times 18=144$

similarly, considering option b (21, 108, 12)

here, $(21-12) \times 12=108$

$9 \times 12=108$

Therefore, answer is option b

Question 34

Introducing a boy, Ritika said, "He is the son of my father's only son". How is Ritika related to the boy's mother?

A Cousin

B Sister

C Aunt

D Sister-in-law

Answer: D

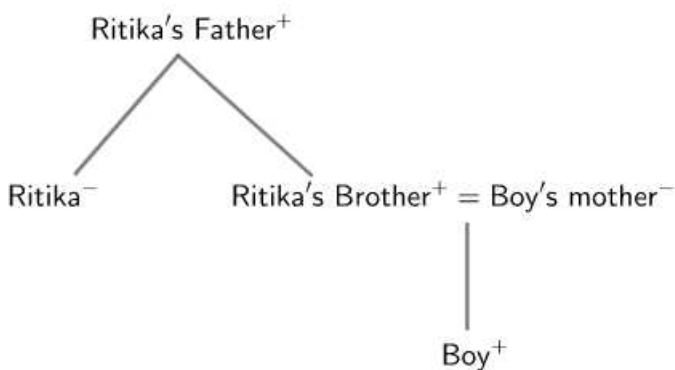
Explanation:

According to the problem,

Boy is the son of Ritika's father's only son

\Rightarrow Boy is the son of Ritika's brother

The family tree is



\therefore Ritika is Sister-in-law of Boy's mother

Hence, the correct answer is Option D

Question 35

If in a coded language 'ORAL' is written as '1518112', then in the same coded language, 'WRITTEN' will be written as:

A 231892020514

B 221891919514

C 231892020614

D 221792020514

Answer: A

Explanation:

Given, ORAL is written as 1518112 in the code language

The logic here is

O = 15

R = 18

A = 1

L = 12

The corresponding value of letters is coded in the code language.

Similarly,

W = 23

R = 18

I = 9

T = 20

T = 20

E = 5

N = 14

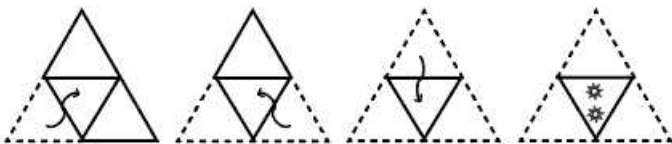
∴ WRITTEN is written as 231892020514 in the code language

Hence, the correct answer is Option A

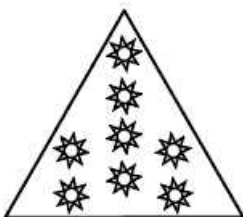
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Question 36

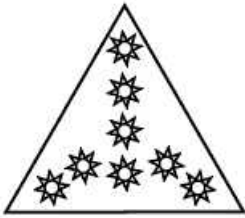
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



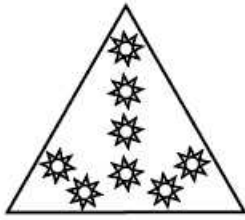
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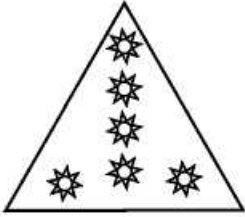
B



C



D



Answer: C

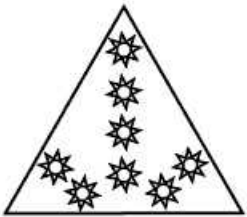
Explanation:

When the paper is unfolded first, two stars will appear on the top part of the triangle.

When the paper is unfolded next to the right, two stars will appear on the bottom right similarly towards the side of the triangle.

When the paper is unfolded again to the left, two stars will appear on the bottom left similarly towards the side of the triangle.

∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option C

Question 37

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

512 : 64

A 1728 : 121

B 1331 : 144

C 1000 : 81

D 1331 : 121

Answer: D

Explanation:

$$512 : 64 \rightarrow 8^3 : 8^2$$

The numbers are cube and square of a number respectively.

Similarly,

$$1331 : 121 \rightarrow 11^3 : 11^2$$

∴ 1331 and 121 share same relationship as 512 and 64.

Hence, the correct answer is Option D

Question 38

'Advocate' is related to 'Client' in the same way as 'Doctor' is related to _____.

- A Disease
- B Patient
- C Nurse
- D Treatment

Answer: B

Explanation:

Client is known as the one who uses the services of Advocate. Similarly, Patient is known as the one who is sick and uses the services of Doctor.

∴ Advocate is related to Client in the same way Doctor is related to Patient

Hence, the correct answer is Option B

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Question 39

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 trees are silver oaks.
- 2. Some silver oaks are tall objects.

Conclusions:

- I. Some tall objects are silver oaks.
- II. All tall objects are trees.

- A Only conclusion I follows.
- B Only conclusion II follows.
- C Neither conclusion I nor II follows.
- D Both conclusions I and II follow.

Answer: A

Explanation:

The basic diagram for the given statements is



- I. Some tall objects are silver oaks

From the basic diagram, some tall objects are silver oaks. Hence conclusion I follows.

II. All tall objects are trees

From the basic diagram, no tall object is tree. Hence conclusion II do not follow.

∴ Only conclusion I follows the given statements

Hence, the correct answer is Option A

Question 40

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

A SQOMK

B KMOQS

C FHJLN

D PRTVX

Answer: A

Explanation:

In KMOQS, FHJLN, PRTVX, the number of letters between the letters of the letter-clusters is 1 and the letters are in alphabetical order.

In SQOMK, the numbers of letters between the letter of the letter-clusters is 1 but the letters are in reverse alphabetical order.

∴ SQOMK is the odd letter-cluster among the given letter-clusters

Hence, the correct answer is Option A

Question 41

In a certain code language, COBBLER is coded as 130 and TABLE is coded as 93. How will ALMIRAH be coded as in that language?

A 125

B 127

C 129

D 123

Answer: A

Explanation:

Given, COBBLER is coded as 130 and TABLE is coded as 93 in the code language

The logic here is

C opposite is X → X = 24

O opposite is L → L = 12

B opposite is Y → Y = 25

B opposite is Y → Y = 25

L opposite is O → O = 15

E opposite is V → V = 22

R opposite is I → I = 9

COBBLER → XLYYOVI → (24 + 12 + 25 + 25 + 15 + 22 + 9) - 2 = 132 - 2 = 130

T opposite is G → G = 7

A opposite is Z → Z = 26

B opposite is Y \rightarrow Y = 25

L opposite is O \rightarrow O = 15

E opposite is V \rightarrow V = 22

TABLE \rightarrow GZYOV \rightarrow $(7 + 26 + 25 + 15 + 22) - 2 = 95 - 2 = 93$

The code value is the difference of sum of the values of opposite letters and 2.

Similarly,

A opposite is Z \rightarrow Z = 26

L opposite is O \rightarrow O = 15

M opposite is N \rightarrow N = 14

I opposite is R \rightarrow R = 18

R opposite is I \rightarrow I = 9

A opposite is Z \rightarrow Z = 26

H opposite is S \rightarrow S = 19

The code value for ALMIRAH is $(26 + 15 + 14 + 18 + 9 + 26 + 19) - 2 = 127 - 2 = 125$

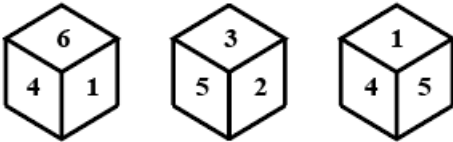
\therefore ALMIRAH is coded as 125 in the code language

Hence, the correct answer is Option A

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Question 42

Three different positions of the same dice are shown. Select the number that will be on the face opposite to the face having number '5'.



A 6

B 3

C 2

D 4

Answer: A

Explanation:

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

From the third position of dice, 5 is not opposite to 1 and 4.

\Rightarrow 5 is opposite to the remaining number 6

\therefore 6 will be on the face opposite to the face having number 5

Hence, the correct answer is Option A

Question 43

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

$$36 \div 6 - 15 \times 2 + 48 = 14$$

A 36 and 48

B 6 and 14

C 48 and 15

D 2 and 6

Answer: A

Explanation:

By Trial and Error method,

Option A

$$48 \div 6 - 15 \times 2 + 36 = 14$$

$$8 - 15 \times 2 + 36 = 14$$

$$8 - 30 + 36 = 14$$

$$14 = 14$$

Hence, the correct answer is Option A

Question 44

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

1, 27, 125, 343, 729, ?

A 1244

B 1525

C 1331

D 1029

Answer: C

Explanation:

The given series is 1, 27, 125, 343, 729, ?

$$1 = 1^3$$

$$27 = 3^3$$

$$125 = 5^3$$

$$343 = 7^3$$

$$729 = 9^3$$

Similarly, the next number in the series = $11^3 = 1331$

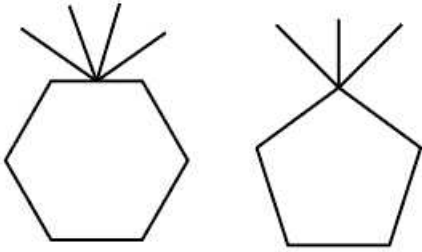
∴ Required number = 1331

Hence, the correct answer is Option C

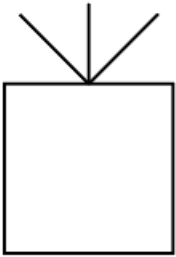
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Question 45

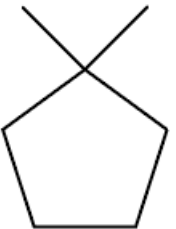
Select the figure that will come next in the following series.



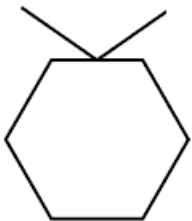
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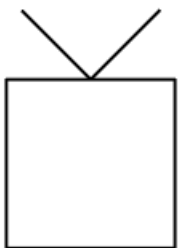
B



C



D



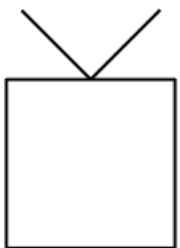
Answer: D

Explanation:

In the series, the polygon is decreasing its number of sides by 1 and the above lines are also decreasing by 1.

The next figure in the series will have polygon with 4 sides and the above lines will be 2.

∴ The next figure in the series is



Hence, the correct answer is Option D

Question 46

Select the option in which the numbers are related in the same way as are the numbers of the following set. (31, 18, 7)

- A (90, 54, 12)
- B (64, 50, 40)
- C (70, 38, 20)
- D (72, 34, 15)

Answer: A

Explanation:

The logic here is

$$31 + 18 = 49 = 7^2 \rightarrow \text{first number} + \text{second number} = \text{third number}^2$$

Similarly,

$$90 + 54 = 144 = 12^2$$

\therefore (90, 54, 12) are related in the same way as (31, 18, 7) related

Hence, the correct answer is Option A

Question 47

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

Phobia : Fear

- A Dengue : Mosquitoes
- B Amnesia : Forgetting
- C Dyslexia : Disability
- D Cough : Infection

Answer: B

Explanation:

Phobia is a kind of fear. Similarly, Amnesia means forgetting memories.

\therefore Amnesia and Forgetting share the same relationship as Phobia and Fear.

Hence, the correct answer is Option B

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Question 48

Train 'A' runs at a speed of 80 kmph and leaves station 'X' at 11.00 a.m. Train 'B' leaves station 'X' at 11.15 a.m. in the same direction, on the same day. At what speed train 'B' should run in order to catch train 'A' at station 'Y' located at a distance of 60 km?

- A 120 km/h
- B 125 km/h
- C 115 km/h
- D 110 km/h

Answer: A

Explanation:

Speed of train A = 80 km/h

Distance between station X and station Y = 60 km

Time taken by train A to reach station Y = $\frac{60}{80}$ hours = $\frac{3}{4}$ hours $\frac{3}{4} \times 60$ minutes = 45 minutes

Since train B starts 15 min late, it should reach station Y in 30 minutes to catch train A at station Y.

Time taken by train B to reach station Y = 30 minutes = $\frac{1}{2}$ hour

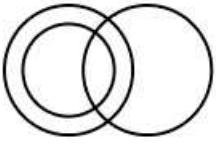

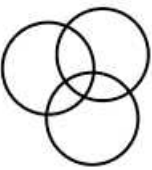
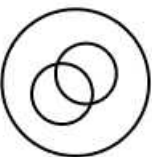
\therefore Speed of train B = $\frac{\text{Distance from station X to station Y}}{\text{Time}} = \frac{60}{\frac{1}{2}} = 120$ km/h

Hence, the correct answer is Option A

Question 49

Select the Venn diagram that best illustrates the relationship between the following classes.

Fathers, Males, Brothers

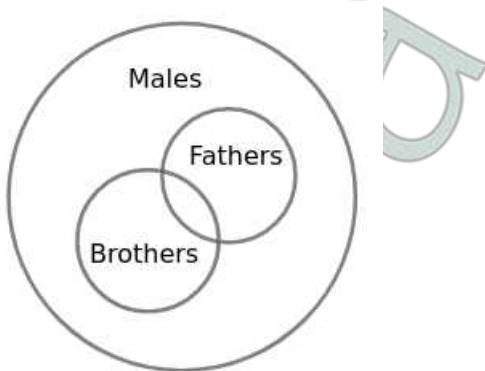
- A 
- B 
- C 
- D 

Answer: D

Explanation:

All fathers and brothers are males. Some fathers are brothers.

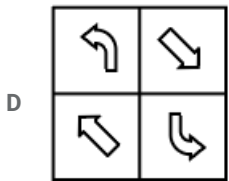
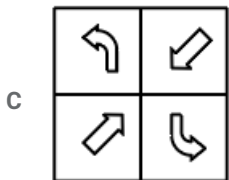
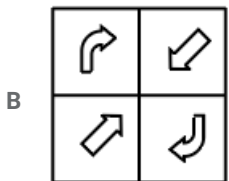
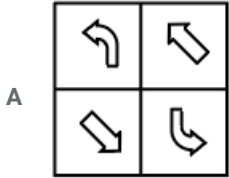
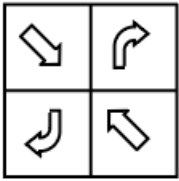
\therefore The Venn diagram that best illustrates the relationship between the given classes is



Hence, the correct answer is Option D

Question 50

Select the correct mirror image of the given figure when the mirror is placed to the right side of the figure.



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.

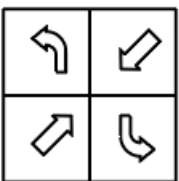
The arrow on the top left facing the centre will be on the top right facing the centre in the mirror image.

The arrow on the bottom right facing the centre will be on the bottom left facing the centre in the mirror image.

The curved arrow on the top right facing the right will be on the top left facing the left in the mirror image.

The curved arrow on the bottom left facing the left will be on the bottom right facing the right in the mirror image.

∴ The mirror image of the given figure is



Hence, the correct answer is Option C

SSC CGL Previous Papers (DOWNLOAD PDF)

Quantitative Aptitude(Basic Arithmetic Skill)

Instructions

For the following questions answer them individually

Question 51

A, B, C are three points so that $AB = 4$ cm, $BC = 6$ cm and $AC = 10$ cm. The number of circles passing through the points A, B, C is:

- A 1
- B 3
- C 0
- D 2

Answer: C

Explanation:



$$AB + BC = 4 + 6 = 10 \text{ cm}$$

$$AB + BC = AC$$

\Rightarrow A, B, C are collinear points

\therefore No circle can be formed using three collinear points

Hence, the correct answer is Option C

SSC CGL Free Mock Test (Latest Pattern)

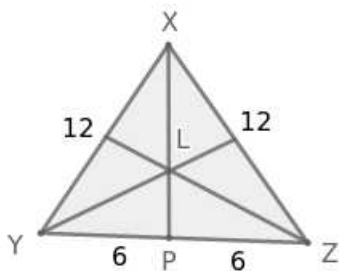
Question 52

The centroid of an equilateral $\triangle XYZ$ is L. If $XY = 12$ cm, then the length of XL (in cm), is:

- A $5\sqrt{3}$
- B $2\sqrt{3}$
- C $4\sqrt{3}$
- D $3\sqrt{3}$

Answer: C

Explanation:



In the equilateral triangle XYZ, $XY = 12$ cm

$\Rightarrow YZ = XZ = 12$ cm

The median XP bisects YZ at P and also perpendicular to YZ in the equilateral triangle.

$\Rightarrow YP = PZ = 6$ cm and $XP \perp YZ$

The centroid L divides the median XP in the ratio of 2 : 1

$$\Rightarrow XL : PL = 2 : 1$$

$$\Rightarrow XL = 2PL \dots\dots\dots(1)$$

In $\triangle XPZ$,

$$XP^2 + PZ^2 = XZ^2$$

$$\Rightarrow XP^2 + 6^2 = 12^2$$

$$\Rightarrow XP^2 + 36 = 144$$

$$\Rightarrow XP^2 = 108$$

$$\Rightarrow XP = 6\sqrt{3}$$

$$\Rightarrow XL + PL = 6\sqrt{3}$$

$$\Rightarrow 2PL + PL = 6\sqrt{3}$$

$$\Rightarrow 3PL = 6\sqrt{3}$$

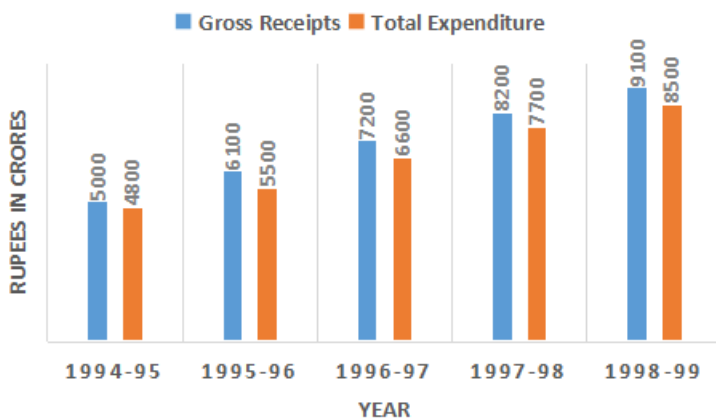
$$\Rightarrow PL = 2\sqrt{3}$$

$$\Rightarrow XL = 2PL = 4\sqrt{3}$$

Hence, the correct answer is Option C

Question 53

Given bar graph shows, total expenditure and the gross receipts of a company (in ₹ crores). Study the graph and answer the question that follows



If profit = gross receipts – total expenditure, then in 1997-98, what percentage of gross receipts is the profit made? (Correct to one decimal place)

- A 4.8%
- B 5.4%
- C 3.9%
- D 6.1%

Answer: D

Explanation:

From the bar graph,

Gross receipts in 1997-98 = 8200

Total expenditure in 1997-98 = 7700

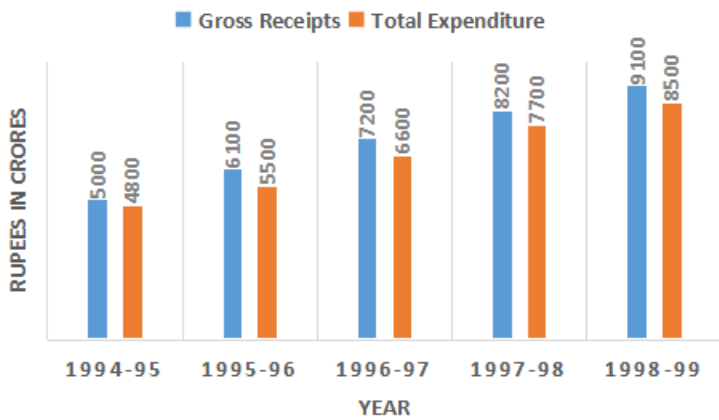
Profit in 1997-98 = 8200 - 7700 = 500

\therefore Required percentage = $\frac{500}{8200} \times 100 = 6.097\% = 6.1\%$ (approximately)

Hence, the correct answer is Option D

Question 54

Given bar graph shows, total expenditure and the gross receipts of a company (in ₹ crores). Study the graph and answer the question that follows.



What is the percentage increase in the gross receipts in 1996-97 as compared to 1994-95?

- A 41%
- B 44%
- C 42%
- D 43%

Answer: B

Explanation:

From the bar graph,

Gross receipts in 1996-97 = 7200

Gross receipts in 1994-95 = 5000

Increase in gross receipts = $7200 - 5000 = 2200$

\therefore Required percentage = $\frac{2200}{5000} \times 100 = 44\%$

Hence, the correct answer is Option B

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

If $29^{41} + 37^{41}$ is divided by 33, then the remainder is:

- A 0
- B 3
- C 2
- D 1

Answer: A

Explanation:

$29^{41} + 37^{41} = (29 + 37) (29^{40} - 29^{39} \cdot 37 + 29^{38} \cdot 37^2 - \dots + 37^{40})$

$$\Rightarrow 29^{41} + 37^{41} = (66) (29^{40} - 29^{39} \cdot 37 + 29^{38} \cdot 37^2 - \dots + 37^{40})$$

$$\Rightarrow 29^{41} + 37^{41} = 33 \{2 (29^{40} - 29^{39} \cdot 37 + 29^{38} \cdot 37^2 - \dots + 37^{40})\}$$

$$\Rightarrow 29^{41} + 37^{41} = 33k$$

$$\Rightarrow 29^{41} + 37^{41} \text{ is multiple of } 33$$

\therefore When $29^{41} + 37^{41}$ is divided by 33, the remainder is 0

Hence, the correct answer is Option A

Question 56

Marked price of an article is 20% more than its cost price. At what percent less should it be sold for no profit and no loss?

A $16\frac{2}{3}\%$

B $16\frac{1}{3}\%$

C $14\frac{1}{3}\%$

D $14\frac{2}{3}\%$

Answer: A

Explanation:

Let the cost price of the article = C

$$\Rightarrow \text{Marked price of the article} = \frac{120}{100} C = \frac{6}{5} C$$

For no profit and no loss, Selling price = Cost price = C

$$\therefore \text{Required percentage} = \frac{\frac{6}{5} C - C}{\frac{6}{5} C} \times 100 = \frac{\frac{1}{5} C}{\frac{6}{5} C} \times 100 = \frac{1}{6} \times 100 = 16\frac{2}{3}\%$$

Hence, the correct answer is Option A

Question 57

The sum of the squares of the sides of a rhombus is 900 m^2 . What is the side of the rhombus.

A 17 m

B 14 m

C 16 m

D 15 m

Answer: D

Explanation:

Let the side of the rhombus = a

Given, the sum of the squares of the sides of a rhombus is 900 m^2

$$\Rightarrow a^2 + a^2 + a^2 + a^2 = 900$$

$$\Rightarrow 4a^2 = 900$$

$$\Rightarrow a^2 = 225$$

$$\Rightarrow a = 15 \text{ m}$$

\therefore Side of the rhombus = a = 15 m

Hence, the correct answer is Option D

SSC CHSL Study Material

Question 58

If $1 + 9r^2 + 81r^4 = 256$ and $1 + 3r + 9r^2 = 32$, then find the value of $1 - 3r + 9r^2$.

- A 4
- B 8
- C 16
- D 12

Answer: B

Explanation:

Given that $1 + 3r + 9r^2 = 32$

and let $1 - 3r + 9r^2$ be K

Multiply $1 + 3r + 9r^2$ and $1 - 3r + 9r^2$

we get the product as $1 + 9r^2 + 81r^4 = 32K$

but $1 + 9r^2 + 81r^4 = 256$

substitute this value in the product

$$256 = 32K$$

$$K = 8$$

Therefore, answer is option B

Question 59

If $0 < \theta < 90^\circ$, $3b \operatorname{cosec} \theta = a \sec \theta$ and $3a \sec \theta - b \operatorname{cosec} \theta = 8$, then the value of $9b^2 + a^2$ is:

- A 7
- B 9
- C 8
- D 6

Answer: B

Explanation:

Given, $3b \operatorname{cosec} \theta = a \sec \theta$

$$\Rightarrow b \operatorname{cosec} \theta = \frac{a \sec \theta}{3}$$

$$3a \sec \theta - b \operatorname{cosec} \theta = 8$$

$$\Rightarrow 3a \sec \theta - \frac{a \sec \theta}{3} = 8$$

$$\Rightarrow a \sec \theta \left(3 - \frac{1}{3}\right) = 8$$

$$\Rightarrow a \sec \theta \left(\frac{8}{3}\right) = 8$$

$$\Rightarrow a \sec \theta = 3 \dots\dots\dots(1)$$

$$3b \operatorname{cosec} \theta = a \sec \theta$$

$$\Rightarrow \frac{3b}{\sin \theta} = \frac{a}{\cos \theta}$$

$$\Rightarrow a \tan \theta = 3b$$

$$\Rightarrow a^2 \tan^2 \theta = 9b^2$$

$$\Rightarrow a^2 (\sec^2 \theta - 1) = 9b^2$$

$$\Rightarrow a^2 \sec^2 \theta - a^2 = 9b^2$$

$$\Rightarrow 3^2 - a^2 = 9b^2 \text{ (From 1)}$$

$$\Rightarrow 9b^2 + a^2 = 9$$

Hence, the correct answer is Option B

Question 60

Find the value of $309 \div \left[\left(\frac{3}{2} \right) \text{ of } (25 + 35) - 12 \frac{3}{4} \right]$

A 4

B 12

C 8

D 16

Answer: A

Explanation:

$$309 \div \left[\left(\frac{3}{2} \right) \text{ of } (25 + 35) - 12 \frac{3}{4} \right] = 309 \div \left[\left(\frac{3}{2} \right) \text{ of } 60 - \frac{51}{4} \right]$$

$$= 309 \div \left[\frac{3}{2} \times 60 - \frac{51}{4} \right]$$

$$= 309 \div \left[90 - \frac{51}{4} \right]$$

$$= 309 \div \left[\frac{309}{4} \right]$$

$$= 4$$

Hence, the correct answer is Option A

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Question 61

The diameter of a wheel is 49 cm. The number of revolutions in which it will have to cover a distance of 770 m, is:

A 400

B 500

C 700

D 600

Answer: B

Explanation:

Given, diameter of the wheel = 49 cm

$$\text{Perimeter of the wheel} = 49\pi = 49 \times \frac{22}{7} = 154 \text{ cm}$$

Distance to be covered = 770 m = 770×100 cm

$$\therefore \text{The number of revolutions in which it will have to cover a distance of 770 m} = \frac{770 \times 100}{154} = 500$$

Hence, the correct answer is Option B

Question 62

Anil bought some articles at 6 for ₹ 8 and sold them at 10 for ₹ 12. His percentage loss or gain is:

- A 10% loss
- B 10% gain
- C 8% gain
- D 8% loss

Answer: A

Explanation:

Cost price of 6 articles = ₹ 8

$$\Rightarrow \text{Cost price of 1 article} = \frac{8}{6} = ₹ \frac{4}{3}$$

Selling price of 10 articles = ₹ 12

$$\Rightarrow \text{Selling price of 1 article} = \frac{12}{10} = ₹ \frac{6}{5}$$

$$\text{Loss of 1 article} = \frac{4}{3} - \frac{6}{5} = \frac{20-18}{15} = ₹ \frac{2}{15}$$

$$\text{Loss\%} = \frac{\frac{2}{15}}{\frac{4}{3}} \times 100 = \frac{2}{15} \times \frac{3}{4} \times 100 = 10\%$$

Hence, the correct answer is Option A

Question 63

If $a + 3b = 12$ and $ab = 9$, then the value of $(a - 3b)$ is:

- A 9
- B 8
- C 6
- D 4

Answer: C

Explanation:

Given, $a + 3b = 12$

$$\Rightarrow (a + 3b)^2 = 12^2$$

$$\Rightarrow a^2 + 9b^2 + 6ab = 144$$

$$\Rightarrow a^2 + 9b^2 + 6(9) = 144$$

$$\Rightarrow a^2 + 9b^2 + 54 - 6ab + 6ab = 144$$

$$\Rightarrow a^2 + 9b^2 - 6ab + 6ab = 90$$

$$\Rightarrow (a - 3b)^2 + 6ab = 90$$

$$\Rightarrow (a - 3b)^2 + 6(9) = 90$$

$$\Rightarrow (a - 3b)^2 + 54 = 90$$

$$\Rightarrow (a - 3b)^2 = 36$$

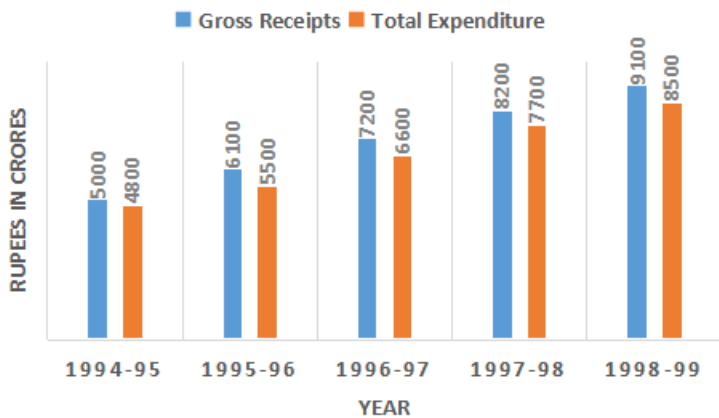
$$\Rightarrow a - 3b = 6$$

Hence, the correct answer is Option C

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Question 64

Given bar graph shows, total expenditure and the gross receipts of a company (in ₹ crores). Study the graph and answer the question that follows.



In order to make a profit of 20%, what should have been the gross receipts (in crore ₹) in 1995-96, if the total expenditure remained the same?

- A 6445
- B 7565
- C 6875
- D 5776

Answer: C

Explanation:

From the bar graph,

Total expenditure in 1995-96 = 5500

Let the gross receipts in 1995-96 to make 20% = a

$$\Rightarrow a - 5500 = \frac{20}{100} \times a$$

$$\Rightarrow a - \frac{1}{5} \times a = 5500$$

$$\Rightarrow \frac{4}{5} \times a = 5500$$

$$\Rightarrow a = 6875$$

∴ The gross receipts in 1995-96 to make 20% = 6875

Hence, the correct answer is Option C

Question 65

If $\operatorname{cosec}^2 x - 2 = 0$, then the value of x ($0 < x < 90^\circ$) is:

- A 15°
- B 60°
- C 30°
- D 45°

Answer: D

Explanation:

$$\text{Given, } \operatorname{cosec}^2 x - 2 = 0$$

$$\Rightarrow \operatorname{cosec}^2 x = 2$$

$$\Rightarrow \operatorname{cosec} x = \sqrt{2}$$

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

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

Since $0 < x < 90^\circ$

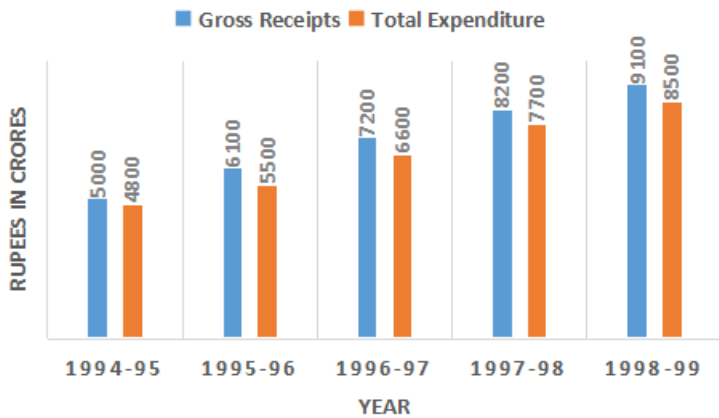
$$\sin x = \sin 45^\circ$$

$$\Rightarrow x = 45^\circ$$

Hence, the correct answer is Option D

Question 66

Given bar graph shows, total expenditure and the gross receipts of a company (in ₹ crores). Study the graph and answer the question that follows.



The total expenditure of the company in 1998-99 exceeds that in 1994-95 by (in ₹ crore):

- A 3800
- B 4800
- C 3700
- D 5500

Answer: C

Explanation:

From the bar graph,

Expenditure of the company in 1998-99 = 8500

Expenditure of the company in 1994-95 = 4800

Difference in expenditures in 1998-99 and 1994-95 = $8500 - 4800 = 3700$

∴ The total expenditure of the company in 1998-99 exceeds that in 1994-95 by (in ₹ crore) 3700

Hence, the correct answer is Option C

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Question 67

If $a^2 + a^2 = 16$, then find the value of $a^4 + 2 + 8a^2$

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

Answer: D

Explanation:

Given, $a^2 + a^2 = 16$

$$a^4 + 2 + 8a^2 = a^2(a^2 + a^2 + 8)$$

$$= a^2 + a^2 + 8$$

$$= 16 + 8$$

$$= 24$$

$$= 3$$

Hence, the correct answer is Option D

Question 68

The average of 24 numbers is 26. The average of the first 15 numbers is 23 and that of the last 8 number is 33. Find the 16th number.

- A 16
- B 17
- C 15
- D 18

Answer: C

Explanation:

Given, the average of the first 15 numbers is 23

$$\Rightarrow \text{Sum of first 15 numbers} = 23 \times 15 = 345$$

Average of last 8 numbers is 33

$$\Rightarrow \text{Sum of last 8 numbers} = 33 \times 8 = 264$$

Average of 24 numbers is 26

$$\Rightarrow \text{Sum of 24 numbers} = 26 \times 24 = 624$$

$$\Rightarrow \text{Sum of first 15 numbers} + \text{16th number} + \text{Sum of last 8 numbers} = 624$$

$$\Rightarrow 345 + \text{16th number} + 264 = 624$$

$$\Rightarrow \text{16th number} = 15$$

Hence, the correct answer is Option C

Question 69

The printed price of a cooker is ₹ 2,000, and discounts are 30%, 20% and 10%, respectively. Find the selling price of the cooker.

A ₹ 1,002

B ₹ 1,008

C ₹ 1,004

D ₹ 1,006

Answer: B

Explanation:

Given, Marked price(Printed price) of the cooker = ₹ 2,000

Price of the cooker after 30% discount = $\frac{70}{100} \times 2000 = ₹ 1,400$

Price of the cooker after 20% discount = $\frac{80}{100} \times 1400 = ₹ 1,120$

Price of the cooker after 10% discount = $\frac{90}{100} \times 1120 = ₹ 1,008$

∴ Selling price of the cooker after successive discounts = ₹ 1,008

Hence, the correct answer is Option B

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Question 70

If $a : b = 3 : 4$, find the value of $(7a - 4b) : (8a + 4b)$.

A 1 : 8

B 2 : 3

C 3 : 8

D 2 : 5

Answer: A

Explanation:

Given, $a : b = 3 : 4$

$$\Rightarrow \frac{a}{b} = \frac{3}{4}$$

$$\Rightarrow \frac{4a}{4b} = \frac{3}{4}$$

$$\Rightarrow 4b = \frac{16a}{3}$$

$$(7a - 4b) : (8a + 4b) = \frac{7a - 4b}{8a + 4b}$$

$$= \frac{7a - \frac{16a}{3}}{8a + \frac{16a}{3}}$$

$$= \frac{\frac{21a - 16a}{3}}{\frac{24a + 16a}{3}}$$

$$= \frac{5a}{40a}$$

$$= \frac{1}{8}$$

$$= 1 : 8$$

Hence, the correct answer is Option A

Question 71

The value of $\sin 60^\circ \cos 30^\circ - \cos 60^\circ \sin 30^\circ$ is:

- A 1
- B $\frac{1}{2}$
- C $\frac{\sqrt{3}}{2}$
- D $\frac{1}{\sqrt{2}}$

Answer: B

Explanation:

$$\begin{aligned}\sin 60^\circ \cos 30^\circ - \cos 60^\circ \sin 30^\circ &= \frac{\sqrt{3}}{2} \times \frac{\sqrt{3}}{2} - \frac{1}{2} \times \frac{1}{2} \\ &= \frac{3}{4} - \frac{1}{4} \\ &= \frac{2}{4} \\ &= \frac{1}{2}\end{aligned}$$

Hence, the correct answer is Option B

Question 72

10 men working 5 hours/day earn ₹300. How much money will 15 men working 10 hours/day earn?

- A ₹ 800
- B ₹ 600
- C ₹ 650
- D ₹ 900

Answer: D

Explanation:

Given, 10 men working 5 hours/day earn ₹300

1 man working 5 hours/day earn ₹30

15 men working 5 hours/day earn $30 \times 15 = ₹450$

\Rightarrow 15 men working 10 hours/day earn $450 \times 2 = ₹900$

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Question 73

Mohan travels three equal distances at speeds of 12 km/h, 18 km/h and 24 km/h. If he takes a total of 13 hours, then what is the total distance covered?

- A 214 km
- B 212 km
- C 216 km
- D 218 km

Answer: C

Explanation:

Let the total distance be $3d$

Time taken to cover the distance at speed $12 \text{ km/h} = \frac{d}{12}$ hour

Time taken to cover the distance at speed $18 \text{ km/h} = \frac{d}{18}$ hour

Time taken to cover the distance at speed $24 \text{ km/h} = \frac{d}{24}$ hour

Given, total time = 13 hours

$$\Rightarrow \frac{d}{12} + \frac{d}{18} + \frac{d}{24} = 13$$

$$\Rightarrow \frac{6d+4d+3d}{72} = 13$$

$$\Rightarrow \frac{13d}{72} = 13$$

$$\Rightarrow d = 72 \text{ km}$$

\therefore Total distance = $3d = 3 \times 72 = 216 \text{ km}$

Hence, the correct answer is Option C

Question 74

The sum of simple interest on a sum at 8% p.a. for 4 years and 8 years is ₹960. The sum is:

- A ₹800
- B ₹1100
- C ₹1000
- D ₹900

Answer: C

Explanation:

Let the Principal amount = P

Rate = 8%

Given, the sum of simple interest on P for 4 years and 8 years is ₹960

$$\Rightarrow \frac{P \times 4 \times 8}{100} + \frac{P \times 8 \times 8}{100} = 960$$

$$\Rightarrow \frac{32P}{100} + \frac{64P}{100} = 960$$

$$\Rightarrow \frac{96P}{100} = 960$$

$$\Rightarrow P = 1000$$

\therefore The required sum = ₹1000

Hence, the correct answer is Option C

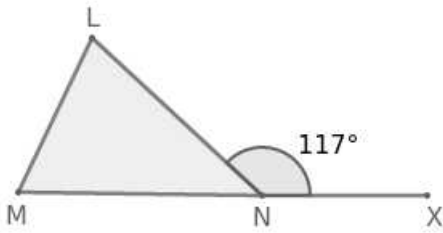
Question 75

The side MN of $\triangle LMN$ is produced to X . If $\angle LNX = 117^\circ$ and $\angle M = \frac{1}{2} \angle L$, then $\angle L$ is:

- A 78°
- B 76°
- C 77°
- D 75°

Answer: A

Explanation:



Given, $\angle LNX = 117^\circ$ and $\angle M = \frac{1}{2} \angle L$

In $\triangle LMN$,

The exterior angle LNX is equal to the sum of the opposite interior angles L and M.

$$\Rightarrow \angle LNX = \angle L + \angle M$$

$$\Rightarrow 117^\circ = \angle L + \frac{1}{2} \angle L$$

$$\Rightarrow 117^\circ = \frac{3}{2} \angle L$$

$$\Rightarrow \angle L = 78^\circ$$

Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Where were the Khelo India Youth Games held between January 10-22, 2020?

- A Guwahati
- B Nagpur
- C New Delhi
- D Bhubaneswar

Answer: A

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Question 77

Which of these is not an Operating System?

- A SQL
- B Linux
- C Unix
- D Mac OS

Answer: A

Question 78

In which state did the 'Saila' dance originate? The dance is performed by boys after the harvest season.

- A Bihar
- B Chhattisgarh
- C Odisha
- D Jharkhand

Answer: B

Question 79

In which year was the Dronacharya Award instituted?

- A 1985
- B 1997
- C 1978
- D 1991

Answer: A

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Question 80

Above which layer of the atmosphere does the Exosphere lie?

- A Troposphere
- B Stratosphere
- C Mesosphere
- D Thermosphere

Answer: D

Question 81

In which year was the Harappan civilization first discovered?

- A 1926
- B 1932
- C 1921
- D 1905

Answer: C

Question 82

Which of the following trees will you find in the Littoral forests?

- A Ebony
- B Sundari
- C Cypress
- D Chinar

Answer: B

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Question 83

Which environmental phenomenon has been linked to synthetic chemicals like chlorofluorocarbons (CFCs)?

- A Wave propagation
- B Tidal flow
- C Ozone depletion
- D Electromagnetic interference

Answer: C

Question 84

What is the shortcut key for the central alignment of a line or text in MS Office software?

- A Ctrl+E
- B Ctrl+C
- C Ctrl+G
- D Ctrl+A

Answer: A

Question 85

Which among the following states won the final of the 25th Senior Women's NFC 2019-20 at Arunachal Pradesh?

- A Tamil Nadu
- B Arunachal Pradesh
- C Odisha
- D Manipur

Answer: D

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Question 86

On 7th January 2020, who among the following was the Chairman of the second National GST Conference and Central and State Commissioners that was held to streamline the Goods and Services Tax?

- A Amit Shah
- B Ajay Bhushan Pandey
- C Anurag Thakur
- D Nirmala Sitharaman

Answer: B

Question 87

Which of the following ministries launched the two campaigns, named Angikaar and E-course?

- A Ministry of Home Affairs
- B Ministry of Housing and Urban Affairs
- C Ministry of Human Resource and Development
- D Ministry of Women and Child Development

Answer: B

Question 88

Which of the following states will you go to enjoy the famous Gaura-Gauri Puja that is celebrated every year?

- A Chhattisgarh
- B Uttarakhand
- C Rajasthan
- D Gujarat

Answer: A

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Question 89

Which of these is an excretory organ of the human body?

- A Heart
- B Skin
- C Brain
- D Muscles

Answer: B

Question 90

In which of the following states of India is the Bomdi-La Pass located?

- A Assam
- B Himachal Pradesh

C Arunachal Pradesh

D Sikkim

Answer: C

Question 91

Which of the following are the 5 groups that plants are divided into?

A Thallophytes, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms

B Arthropoda, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms

C Mollusca, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms

D Annelida, Bryophytes, Pteridophytes, Gymnosperms and Angiosperms

Answer: A

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Question 92

Who among the following is the 15th Chairman of the Finance Commission of India?

A Vijay L. Kelkar

B Y. V. Reddy

C N.K Singh

D C. Rangarajan

Answer: C

Question 93

According to the Motor Vehicles (Amendment) Bill 2019, what is the proposed minimum compensation for hit and run case wherein, the victim die?

A 1,00,000

B 1,50,000

C 2,00,000

D 50,000

Answer: C

Question 94

Which of the following Articles ensures to provide free and compulsory education to all children in the age group of six to fourteen years as a Fundamental Right to Education?

A 20A

B 14

C 21A

D 18A

Answer: C

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Question 95

Which of the following teams did the India Under-15 team defeat with a 7-0 score in the final of the SAFF (South Asian Football Federation) U-15 Championship 2019 held at Kalyani Stadium, West Bengal?

- A Sri Lanka
- B Uzbekistan
- C Turkmenistan
- D Nepal

Answer: D

Question 96

On January 6, 2020, how many Oman ships arrived at Goa to participate in "Naseem-Al-Bahr", the Indo-Oman bilateral naval exercise?

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

Answer: B

Question 97

In which year was the Second Anglo-Mysore war fought between the Kingdom of Mysore and the British East India Company?

- A 1766-1769
- B 1785-1789
- C 1780-1784
- D 1769-1775

Answer: C

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Question 98

Which of these eminent personalities is the one to not receive the Bharat Ratna from the Honorable President in the year 2019?

- A Sachin Tendulkar
- B Bhupendra Kumar Hazarika
- C Nanaji Deshmukh

D Pranab Mukherjee

Answer: A

Question 99

What was the name of the mega-ocean that surrounded the single continental mass before the continental drift as described by Alfred Wegener?

A Pangaea

B Pigmalion

C Panama

D Panthalassa

Answer: D

Question 100

On August 13, at what cost did the Dikom Tea Estate of Assam sell its 'Golden Butterfly' tea at the GTAC, auction centre?

A Rs 25,000 per kg

B Rs 75,000 per kg

C Rs 1,00,000 per kg

D Rs 50,000 per kg

Answer: B

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