



SSC CHSL 19th March 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 synonym of the given word.

PENURY

- A Readability
- B Temporality
- C Compatibility
- D Poverty

Answer: D

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Question 2

Select the most appropriate word to fill in the blank.

Although they searched for an hour, they were not able to find the _____ easily.

- A whereabouts
- B space
- C location
- D meeting

Answer: C

Question 3

Select the wrongly spelt word.

- A Menifestation
- B Eradication
- C Manipulation
- D Regularization

Answer: A

Question 4

In the sentence identify the segment which contains the grammatical error.

The manager was referring about the previous instances of loss to the employees during his address.

- A The manager was referring about
- B the previous instances
- C during his address

D of loss to the employees

Answer: A

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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.

Art is the use of (1)____, skill and imagination to create something that's beautiful or emotionally (2)____. This definition needs to be expanded. If you (3)____ a little deeper, you'll see that any skill can be considered an art, (4)____ if you exercise a little (5)____ and creativity in the process.

Question 5

Select the most appropriate option for blank No. 1.

- A emotion
- B creativity
- C destruction
- D intoxication

Answer: B

Question 6

Select the most appropriate option for blank No. 2.

- A creative
- B comforting
- C imaginative
- D tempting

Answer: B

Question 7

Select the most appropriate option for blank No. 3.

- A move
- B play
- C dig
- D look

Answer: C

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Question 8

Select the most appropriate option for blank No. 4.

- A commonly
- B at the outset
- C generally
- D particularly

Answer: D

Question 9

Select the most appropriate option for blank No. 5.

- A imagination
- B hope
- C desire
- D dream

Answer: A

Instructions

For the following questions answer them individually

Question 10

Select the most appropriate word to fill in the blank.
The wall fell down with a big _____.

- A hiss
- B murmur
- C screech
- D bang

Answer: D

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Question 11

Select the most appropriate ANTONYM of the given word.
MAESTRO

- A Connoisseur
- B Enthusiast
- C Teacher
- D Amateur

Answer: D

Question 12

Select the word which means the same as the group of words given.
Condition of sleep during certain parts of the year

- A Somnambulism
- B Dehydration
- C Constipation
- D Hibernation

Answer: D

Question 13

Select the most appropriate ANTONYM of the given word.
UNWORTHY

- A Deserving
- B Helpful
- C Trustworthy
- D Unskilled

Answer: A

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Question 14

Select the correct indirect form of the given sentence.
The lion asked the lioness, "Where will you hide yourself, until I return?"

- A The lion asked the lioness where she would hide herself, until he returned.
- B The lion asked the lioness where she will hide herself, until he returns.
- C The lion asked the lioness whether she would hide herself, until he returned.
- D The lion asked the lioness where would she hide herself, until he returned.

Answer: A

Question 15

Select the correct passive form of the given sentence.
The Inspector had already proved the case before the investigation team took charge of it.

- A The investigation team took charge of the case but the Inspector had already proved before it.
- B The case had already proved by the Inspector before the investigation team took charge of it.
- C The case was already proved by the Inspector before the investigation team took charge of it.
- D The case had already been proved by the Inspector before the investigation team took charge of it.

Answer: D

Question 16

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

- A. The boat floated down the river and reached the other bank.
- B. Thinking that she was dead, her friends secretly took her and abandoned her in a boat.
- C. The people on the bank took her to a hospital and saved her.
- D. Smelling a flower given by the magician, Shweta fell down unconscious.

- A DBAC
- B ACDB
- C DABC
- D BCAD

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'.

Prithvi likes baseball as long as she likes cricket.

- A so long as
- B as much as
- C No improvement
- D as many as

Answer: B

Question 18

In the sentence identify the segment which contains the grammatical error.

One of the reason behind malnutrition is the improper way of food intake.

- A behind malnutrition
- B of food intake
- C is the improper way
- D One of the reason

Answer: D

Question 19

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

A person who studies the structure of the earth

- A Gynaecologist
- B Geographer
- C Gemologist

D Geologist

Answer: D

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Question 20

Select the wrongly spelt word.

A Productive

B Representative

C Palliative

D Lucretive

Answer: D

Question 21

Select the most appropriate meaning of the given idiom.

In a fog

A Trapped in foggy weather

B Sightless and blind

C Confused and dazed

D Disturbed and unhappy

Answer: C

Question 22

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

A. Their classmate, Koushal, hardly studied and spent much of his time wasting on prattles.

B. He made himself busy by collecting old pens and used papers in order to avoid studies.

C. Poonam, the class teacher, was very much loved and respected by her students.

D. Three of them were very intelligent and spent most of their time studying with Poonam.

A DCAB

B CADB

C CDAB

D CDBA

Answer: C

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Question 23

Select the most appropriate meaning of the given idiom.

Neither fish nor fowl

- A Something which can neither be purchased nor be grown
- B Something which can neither be supplied easily nor be made available readily
- C Something which can neither be categorized easily nor be accepted befittingly
- D Something which can neither be eaten nor be preserved

Answer: C

Question 24

Select the most appropriate synonym of the given word.
FESTIVITY

- A Calibration
- B Bothereation
- C Celebration
- D Foundation

Answer: C

Question 25

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'.

As long to funding is not made available, our construction dreams have been deferred.

- A No improvement
- B As high as
- C In as much as
- D So long as

Answer: D

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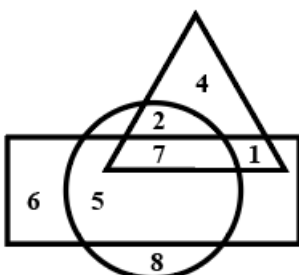
General Intelligence

Instructions

For the following questions answer them individually

Question 26

In the given Venn Diagram, 'Circle' represents 'Players', 'Triangle' represents 'Graduates' and 'Rectangle' represents 'Managers'. Which of the numbers depicts the area which represents 'Graduate Players who are not Managers'?



- A 1
- B 5
- C 7
- D 2

Answer: D

Explanation:

From the Venn diagram,

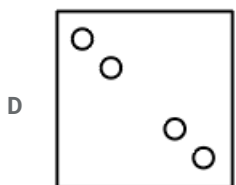
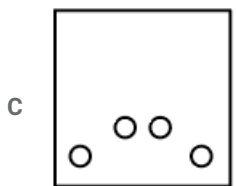
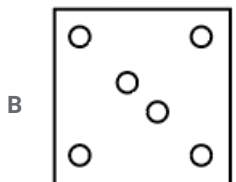
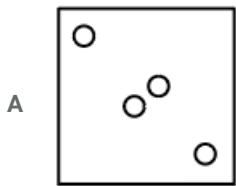
The number which represents 'Graduate Players who are not Managers' = Intersection of Triangle and Circle but not Rectangle = 2

Hence, the correct answer is Option D

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Question 27

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?



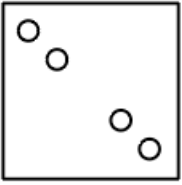
Answer: D

Explanation:

When the paper is unfolded, two circles will appear on the top left similarly.

When the paper is unfolded again, no cutting part will appear.

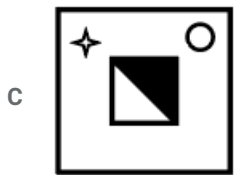
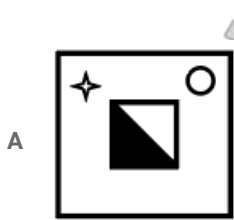
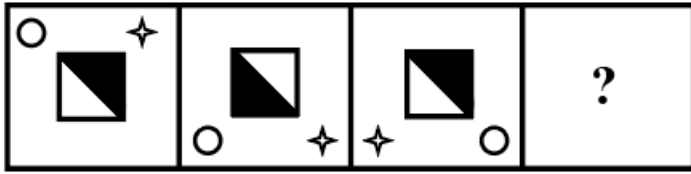
∴ When the paper is unfolded it will appear as shown below



Hence, the correct answer is Option D

Question 28

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



Answer: A

Explanation:

In the given series,

The circle is moving one place in anti clockwise direction along the edges of the square.

The star is moving one place in clockwise direction along the edges of the square.

The black triangle is changing its position alternatively.

∴ The next figure in the given series is



Hence, the correct answer is Option A

Question 29

Select the option in which the number set shares the same relationship as that shared by the given number set.
(11, 15, 400)

- A (12, 17, 493)
- B (10, 12, 244)
- C (18, 24, 786)
- D (20, 22, 870)

Answer: A

Explanation:

The logic here is

$$(11+1)^2 + (15+1)^2 = 144 + 256 = 400 \rightarrow (\text{first number} + 1)^2 + (\text{second number} + 1)^2 = \text{third number}$$

Similarly,

$$(12+1)^2 + (17+1)^2 = 169 + 324 = 493$$

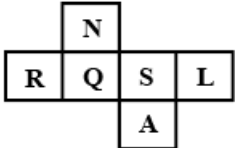
∴ (12, 17, 493) shares the same relationship as (11, 15, 400)

Hence, the correct answer is Option A

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Question 30

A cube is made by folding the given sheet. In the cube so formed, what would be the letter on the opposite side of 'L'?



- A Q
- B S
- C R
- D N

Answer: A

Explanation:

When the given sheet is folded to form a cube with base as Q,

Q will be opposite to L

R will be opposite to S

N will be opposite to A

∴ Q will be on the side of L.

Hence, the correct answer is Option A

Question 31

In a certain code language, 'SHARP' is written as '73'. How will 'AUDIT' be written as in the same language?

- A 80
- B 72
- C 76
- D 84

Answer: A

Explanation:

Given, SHARP is written as 73 in the code language

The logic here is

S opposite is H \rightarrow H = 8

H opposite is S \rightarrow S = 19

A opposite is Z \rightarrow Z = 26

R opposite is I \rightarrow I = 9

P opposite is K \rightarrow K = 11

SHARP \rightarrow HSZIK \rightarrow 8 + 19 + 26 + 9 + 11 = 73

The code is the sum of the values of the opposite letters.

Similarly,

A opposite is Z \rightarrow Z = 26

U opposite is F \rightarrow F = 6

D opposite is W \rightarrow W = 23

I opposite is R \rightarrow R = 18

T opposite is G \rightarrow G = 7

The code for AUDIT is 26 + 6 + 23 + 18 + 7 = 80

\therefore AUDIT is written as 80 in the code language

Hence, the correct answer is Option A

Question 32

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

19, 20, 24, 51, 67, ?

- A 190
- B 192
- C 191
- D 195

Answer: B

Explanation:

In the given series,

$$20 - 19 = 1 = 1^3$$

$$24 - 20 = 4 = 2^2$$

$$51 - 24 = 27 = 3^3$$

$$67 - 51 = 16 = 4^2$$

The difference between numbers of the series are square and cubes of natural numbers alternatively.

The next difference should be 5^3

Let the required number be 'a'

$$\Rightarrow a - 67 = 5^3$$

$$\Rightarrow a = 125 + 67$$

$$\Rightarrow a = 192$$

\therefore Required number = 192

Hence, the correct answer is Option B

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Question 33

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

Admission Card : Examination

- A Hotel : chef
- B Weather : Winter
- C Passenger : Bus Stand
- D Ticket : Train Journey

Answer: D

Explanation:

Admission Card is compulsory for the Examination and it shows the right for Examination. Similarly, Ticket is compulsory for Train Journey and it shows the right for Train Journey.

\therefore Ticket and Train Journey are related in the same way as Admission Card and Examination are related.

Hence, the correct answer is Option D

Question 34

Select the correct combination of mathematical signs to replace the sign (*) and balance the following equation.

$$15 * 4 * 26 * 2 * 7 * 66$$

- A +, ×, −, ÷, =
- B +, ×, ÷, −, =
- C ×, +, ÷, −, =
- D ×, +, −, ÷, =

Answer: C

Explanation:

By Trial and Error method,

Option A

$$15 + 4 \times 26 - 2 \div 7 = 66$$

$$15 + 4 \times 26 - \frac{2}{7} = 66$$

After solving the value will be decimal which is not possible

Option B

$$15 + 4 \times 26 \div 2 - 7 = 66$$

$$15 + 4 \times 13 - 7 = 66$$

$$15 + 52 - 7 = 66$$

$$60 = 66$$

Hence Option B is incorrect

Option C

$$15 \times 4 + 26 \div 2 - 7 = 66$$

$$15 \times 4 + 13 - 7 = 66$$

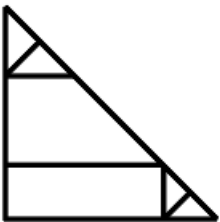
$$60 + 13 - 7 = 66$$

$$66 = 66$$

Hence, the correct answer is Option C

Question 35

How many triangles are there in the figure given below?



A 9

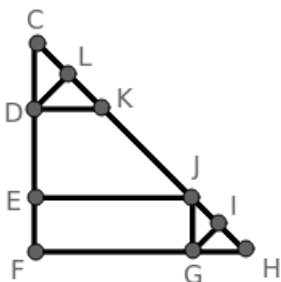
B 7

C 10

D 8

Answer: D

Explanation:



The different triangles in the given figure are CDL, CDK, LDK, CEJ, CFH, JGH, JGI, IGH

\therefore Number of triangles in the given figure = 8

Hence, the correct answer is Option D

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Question 36

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:

All speakers are equipment.

All equipment are wires.

Conclusions:

I. Some wires are equipment.

II. No speaker is wire.

III. Some speakers are not wires.

A Both conclusion I and III follow.

B Only conclusion I follows.

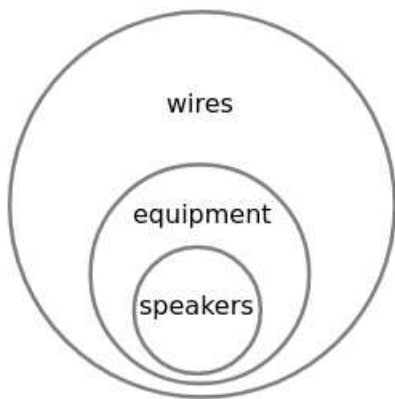
C All conclusions I, II and III follow.

D Only conclusion III follows.

Answer: B

Explanation:

The basic diagram for the given statements is



I. Some wires are equipment

From the basic diagram, some wires are equipment. Hence conclusion I follows.

II. No speaker is wire

From the basic diagram, all speakers are wires. Hence conclusion II do not follow.

III. Some speakers are not wires

From the basic diagram, all speakers are wires. Hence conclusion III do not follow.

∴ Only conclusion I follows the given statements.

Hence, the correct answer is Option B

Question 37

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

U_D_UP_M_PDMU_DM

A UMDUD

B MPUDU

C PMUPD

D PMDUP

Answer: D

Explanation:

By Trial and Error method,

Option A

UUDM | UPDM | UPDM | UDDM

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

Option B

UMDP | UPUM | PPDM | UUDM

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

Option C

UPDM | UPUM | PPDM | UDDM

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

Option D

UPDM | UPDM | UPDM | UPDM

The above letters form a series.

Hence, the correct answer is Option D

Question 38

Select the option that is related to the third term in the same way as the second term is related to the first term and sixth term is related to fifth term.

27 : 6 :: 8 : ? :: 64 : 8

A 3

B 1

C 2

D 4

Answer: D

Explanation:

The logic here is

$$\binom{6}{2}^3 = 3^3 = 27 \rightarrow \left(\frac{\text{second number}}{2}\right)^3 = \text{first number}$$

$$\binom{8}{2}^3 = 4^3 = 64 \rightarrow \left(\frac{\text{sixth number}}{2}\right)^3 = \text{fifth number}$$

Let the fourth number = a

$$\text{Similarly, } \left(\frac{a}{2}\right)^3 = 8$$

$$\Rightarrow \frac{a^3}{8} = 8$$

$$\Rightarrow a^3 = 64$$

$$\Rightarrow a = 4$$

∴ The fourth number = 4

Hence, the correct answer is Option D

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Question 39

In a certain code language, 'WARDEN' is written as 'SJIWFB'. How will 'OFFICE' be written as in that language?

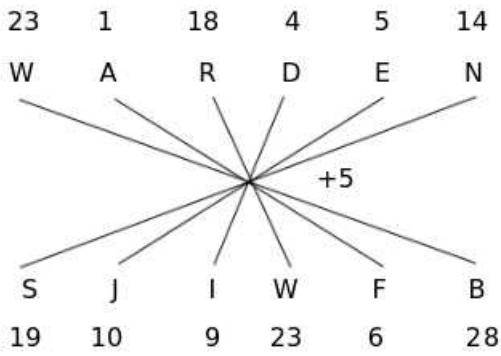
- A JGNKKS
- B KHNJJT
- C JHOKKU
- D JHNKKT

Answer: D

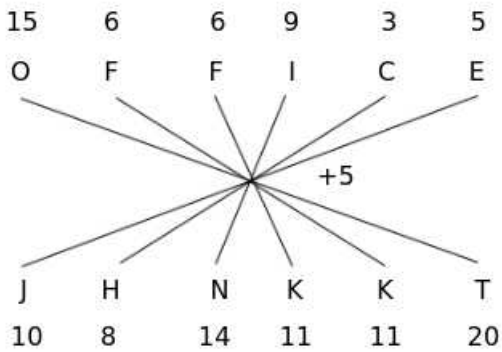
Explanation:

Given, WARDEN is written as SJIWFB in the code language

The logic here is



Similarly,

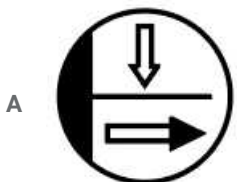
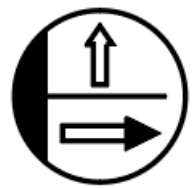


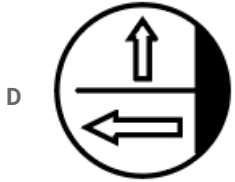
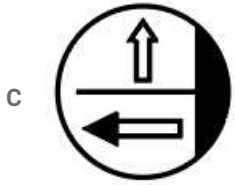
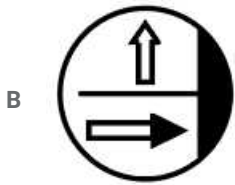
∴ OFFICE is written as JHNKKT in the code language

Hence, the correct answer is Option D

Question 40

Select the correct mirror image of the given figure when a vertical mirror is placed on the right of the figure.





Answer: C

Explanation:

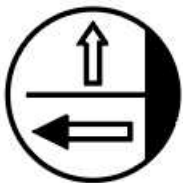
When the mirror is placed on the right side of the figure,

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 shape of the figure.

The dark part on the left of the figure will be on the right in the mirror image.

The arrow with dark tip facing right will face left in the mirror image.

∴ The mirror image of the given figure is



Hence, the correct answer is Option C

Question 41

Select the option in which the number set shares the same relationship as that shared by the given number set.
(14, 24, 84)

A (16, 20, 160)

B (22, 34, 176)

C (12, 60, 186)

D (18, 30, 135)

Answer: D

Explanation:

The logic here is

$$\frac{14}{2} \times \frac{24}{2} = 7 \times 12 = 84$$

Product of half of first number and half of second number is third number.

Similarly,

$$\frac{18}{2} \times \frac{30}{2} = 9 \times 15 = 135$$

∴ (18, 30, 135) shares the same relationship as (14, 24, 84).

Hence, the correct answer is Option D

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Question 42

Select the correct option that arranges the following words in a logical and meaningful sequence.

1. Prize
2. Competition
3. Marking by Judges
4. Winner
5. Participants

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

Answer: A

Explanation:

At first, Participants will participate in the Competition. The Marking will be given by the Judges to the participants. Then the Winner of the competition will be awarded the Prize.

∴ The logical and meaningful order of the given words is Participants, Competition, Marking by Judges, Winner, Prize.

Hence, the correct answer is Option A

Question 43

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

- A SUWY
B YACF
C LNPR
D ZBDF

Answer: B

Explanation:

In letter-clusters SUWY, LNPR, ZBDF, the number of letters between the letters of the letter clusters is 1.

In YACF, the number of letters between C and F is 2.

∴ YACF is the odd one among the given letter-clusters.

Hence, the correct answer is Option B

Question 44

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

Painting : Colour :: Homework : ?

- A School
B Ink

C Notebook

D Teacher

Answer: B

Explanation:

Colour is used to do Painting. Similarly, Ink is used to do Homework.

∴ Ink is related to Homework in the same way Colour is related to Painting.

Hence, the correct answer is Option B

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Question 45

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

A Second

B Minute

C Time

D Hour

Answer: C

Explanation:

Second, Minute, Hour are units of Time but the word Time is not unit of Time.

∴ Time is the odd one among the given words.

Hence, the correct answer is Option C

Question 46

In a class, every student participated in one of the three activities i.e. folk song, kathak and quiz. 22% of the total students participated in folk song. 25% of the remaining students participated in kathak. The remaining students participated in quiz. What percentage of students participated in quiz?

A 53%

B 30.6%

C 41.5%

D 58.5%

Answer: D

Explanation:

Let the total number of students = T

22% of the total students participated in folk song

Number of students participated in folk song = $\frac{22}{100} T$

Remaining students = $T - \frac{22}{100} T = \frac{78}{100} T$

25% of the remaining students participated in kathak

Number of students participated in kathak = $\frac{25}{100} \times \frac{78}{100} T = \frac{39}{200} T$

Remaining students participated in quiz.

$$\text{Number of students participated in quiz} = T - \frac{22}{100}T - \frac{39}{200}T = \frac{117}{200}T$$

$$\text{Percentage of students participated in quiz} = \frac{\frac{117}{200}T}{T} \times 100 = 58.5\%$$

Hence, the correct answer is Option D

Question 47

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

- A 5 : 26
- B 13 : 175
- C 4 : 17
- D 11 : 122

Answer: B

Explanation:

The logic here is

$$26 = 25 + 1 = 5^2 + 1$$

$$17 = 16 + 1 = 4^2 + 1$$

$$122 = 121 + 1 = 11^2 + 1$$

Second number is the sum of square of first number and 1.

In 13 : 175, second number is not sum of square of first number and 1.

∴ 13 : 175 is odd one among the given number-pairs

Hence, the correct answer is Option B

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Question 48

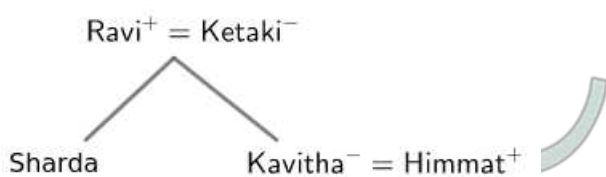
Himmat is the husband of Kavita. Sharda is the daughter of Ravi whose wife is Ketaki. Kavita is Sharda's sister. How is Ravi related to Himmat?

- A Brother
- B Father-in-law
- C Paternal Uncle
- D Father

Answer: B

Explanation:

According to the problem, the family tree is



∴ Ravi is the Father-in-law of Himmat.

Hence, the correct answer is Option B

Question 49

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

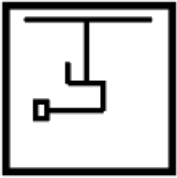
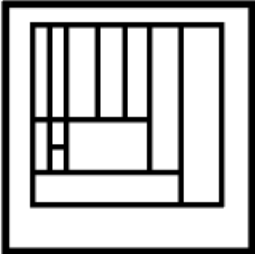
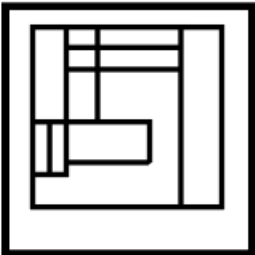


Figure X

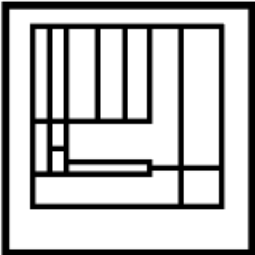
A



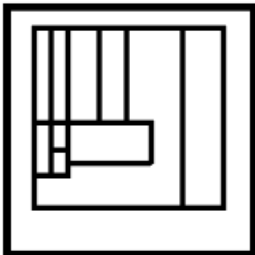
B



C



D



Answer: D

Explanation:

The given figure X is embedded in the fourth figure as shown below



Hence, the correct answer is Option D

Question 50

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.

UBQ : XET :: NKE : ?

- A QNH
- B QMH
- C QNG
- D PNH

Answer: A

Explanation:

The logic here is

$$U + 3 = X$$

$$B + 3 = E$$

$$Q + 3 = T$$

Similarly,

$$N + 3 = Q$$

$$K + 3 = N$$

$$E + 3 = H$$

∴ QNH is related to NKE in the same way XET is related to UBQ.

Hence, the correct answer is Option A

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Quantitative Aptitude(Basic Arithmetic Skill)

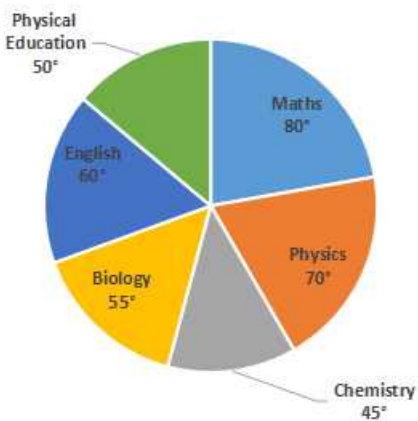
Instructions

For the following questions answer them individually

Question 51

The given pie chart shows the marks obtained in an examination by a student (in degrees). Observe the pie chart and answer the question that follows.

Mark obtained in examination



If the total marks are 720, then the marks obtained in English is what percentage of the marks obtained in Maths?

- A 50%

- B 55%
- C 75%
- D 60%

Answer: C

Explanation:

Given total marks = 720

$$\text{Marks obtained by the student in English} = \frac{60^\circ}{360^\circ} \times 720 = 120$$

$$\text{Marks obtained by the student in Maths} = \frac{80^\circ}{360^\circ} \times 720 = 160$$

$$\therefore \text{Required percentage} = \frac{120}{160} \times 100 = 75\%$$

Hence, the correct answer is Option C

SSC CGL Free Mock Test (Latest Pattern)

Question 52

The difference between the compound interest on a sum of ₹ 8,000 for 1 year at the rate of 10% per annum, interest compounded yearly and half yearly is:

- A ₹40
- B ₹10
- C ₹30
- D ₹20

Answer: D

Explanation:

Given, Principal amount = ₹ 8,000

Rate = 10%

When the interest is compounded yearly, time period = 1 year

$$\text{Compound interest when compounded yearly} = 8000 \left(1 + \frac{10}{100}\right)^1 = 8000 \left(\frac{110}{100}\right) = 8800$$

When the interest is compounded yearly, time period = 2 half-years

$$\text{Rate} = \frac{10}{2} = 5\%$$

$$\text{Compound interest when compounded half yearly} = 8000 \left(1 + \frac{5}{100}\right)^2 = 8000 \left(\frac{105}{100}\right)^2 = 8820$$

$$\therefore \text{Required difference} = 8820 - 8800 = ₹20$$

Hence, the correct answer is Option D

Question 53

$\frac{\sqrt{\operatorname{cosec} x - 1}}{\sqrt{\operatorname{cosec} x + 1}}$ is equal to

- A $\tan x - \sec x$
- B $\sec x \cdot \tan x$
- C $\tan x + \sec x$

D $\sec x - \tan x$

Answer: D

Explanation:

$$\frac{\sqrt{\operatorname{cosec} x - 1}}{\sqrt{\operatorname{cosec} x + 1}} = \frac{\sqrt{\operatorname{cosec} x - 1}}{\sqrt{\operatorname{cosec} x + 1}} \times \frac{\sqrt{\operatorname{cosec} x - 1}}{\sqrt{\operatorname{cosec} x - 1}}$$

$$= \frac{\operatorname{cosec} x - 1}{\sqrt{\operatorname{cosec}^2 x - 1}}$$

$$= \frac{\operatorname{cosec} x - 1}{\sqrt{\cot^2 x}}$$

$$= \frac{\operatorname{cosec} x - 1}{\cot x}$$

$$= \frac{1}{\frac{\sin x}{\cos x}} - \frac{1}{\sin x}$$

$$= \frac{1 - \sin x}{\cos x}$$

$$= \frac{1}{\cos x} - \frac{\sin x}{\cos x}$$

$$= \sec x - \tan x$$

Hence, the correct answer is Option D

Question 54

If $x \sin 30^\circ \cos 60^\circ = \sin 45^\circ \cos 45^\circ$, then the value of x is:

A 2

B 0

C 1

D 3

Answer: A

Explanation:

Given, $x \sin 30^\circ \cos 60^\circ = \sin 45^\circ \cos 45^\circ$

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

$$\Rightarrow x \times \frac{1}{4} = \frac{1}{2}$$

$$\Rightarrow x = 2$$

Hence, the correct answer is Option A

SSC CHSL Important Questions and Answers (Download PDF)

Question 55

A sum of ₹1,260 is distributed between Ravi and Mohan. If the shares of Ravi and Mohan are in ratio 5 : 4, then the shares of Ravi and Mohan are respectively:

A ₹680 and ₹580

B ₹800 and ₹460

C ₹700 and ₹560

D ₹750 and ₹510

Answer: C

Explanation:

Given, Sum = ₹1,260

Ratio of shares of Ravi and Mohan = 5 : 4

Let the share of Ravi and Mohan are 5p and 4p respectively.

$$\Rightarrow 5p + 4p = 1260$$

$$\Rightarrow 9p = 1260$$

$$\Rightarrow 1p = 140$$

Share of Ravi = 5p = 5 x 140 = ₹700

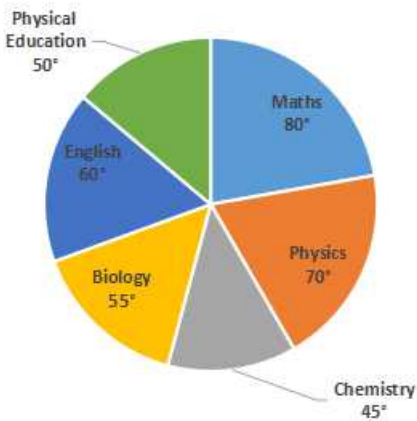
Share of Mohan = 4p = 4 x 140 = ₹560

Hence, the correct answer is Option C

Question 56

The given pie chart shows the marks obtained in an examination by a student (in degrees). Observe the pie chart and answer the question that follows.

Mark obtained in examination



If total marks are 720, then the marks obtained in Chemistry, Biology and Maths together is what percentage of the total marks ?

- A 50%
- B 30%
- C 60%
- D 40%

Answer: A

Explanation:

Given, total marks = 720

$$\text{Marks obtained in Chemistry, Biology and Maths together} = \frac{45^\circ + 55^\circ + 80^\circ}{360^\circ} \times 720 = \frac{180^\circ}{360^\circ} \times 720 = 360$$

$$\therefore \text{Required percentage} = \frac{360}{720} \times 100 = 50\%$$

Hence, the correct answer is Option A

Question 57

The marked price of a toy is ₹450. After a certain discount on the marked price, the selling price of the toy is ₹405. The rate of discount is:

- A 8%
- B 12%

C 15%

D 10%

Answer: D

Explanation:

Marked price of the toy = ₹450

Selling price of the toy = ₹405

Discount = 450 - 405 = 45

∴ Discount% = $\frac{45}{450} \times 100 = 10\%$

Hence, the correct answer is Option D

SSC CHSL Study Material

Question 58

Ravi can complete a task in 6 days and Mohan can complete the same task in 9 days. In how many days can Ravi and Mohan together complete the same task?

A $3\frac{3}{5}$ days

B 9 days

C 15 days

D $3\frac{2}{5}$ days

Answer: A

Explanation:

Let the total work be W

Number of days required for Ravi to complete the task = 6 days

⇒ Work done by Ravi in 1 day = $\frac{W}{6}$

Number of days required for Mohan to complete the task = 9 days

⇒ Work done by Mohan in 1 day = $\frac{W}{9}$

Work done by Ravi and Mohan together in 1 day = $\frac{W}{6} + \frac{W}{9} = \frac{15W}{54} = \frac{5W}{18}$

∴ Number of days required for Ravi and Mohan together to complete the task = $\frac{\text{Total work}}{\text{work done in 1 day}} = \frac{W}{\frac{5W}{18}} = \frac{18}{5}$

= $3\frac{3}{5}$ days

Hence, the correct answer is Option A

Question 59

Which number is divisible by both 9 and 11?

A 10,098

B 10,108

C 10,089

D 10,087

Answer: A

Explanation:

If a number is divisible by 9, then the sum of the digits of the number should be divisible by 9.

If a number is divisible by 11, then the difference of sum of the alternate numbers should be divisible by 11.

By Trial and Error method,

Option A

Sum of the digits of 10,098 = 1 + 0 + 0 + 9 + 8 = 18 which is divisible by 9. So 10,098 is divisible by 9.

Difference of sum of alternate digits = 1 + 0 + 8 - (0 + 9) = 0 which is divisible by 11. So 10,098 is divisible by 11.

Hence, the correct answer is Option A

Question 60

A car covers 15 km, 20 km, 30 km and 12 km at speeds of 20 km/h, 30 km/h, 40 km/h and 30 km/h, respectively. The average speed of the car for the total journey is :

- A 88 km/h
- B 60 km/h
- C 30 km/h
- D 40 km/h

Answer: C

Explanation:

Time taken by the car to cover 15 km distance at speed of 20 km/h = $\frac{15}{20}$ h

Time taken by the car to cover 20 km distance at speed of 30 km/h = $\frac{20}{30}$ h

Time taken by the car to cover 30 km distance at speed of 40 km/h = $\frac{30}{40}$ h

Time taken by the car to cover 12 km distance at speed of 30 km/h = $\frac{12}{30}$ h

$$\text{Total Time} = \frac{15}{20} + \frac{20}{30} + \frac{30}{40} + \frac{12}{30} = \frac{90+80+90+48}{120} = \frac{308}{120} = \frac{77}{30} \text{ h}$$

$$\therefore \text{Average speed of the car for the total journey} = \frac{\text{Total distance}}{\text{Total Time}} = \frac{15+20+30+12}{\frac{77}{30}} = \frac{77 \times 30}{77} = 30 \text{ km/h}$$

Hence, the correct answer is Option C

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Question 61

Sohan purchased an old scooter, and sold it for ₹28,000 thus gaining a 12% profit on the cost price. The cost price of the scooter is:

- A ₹27,000
- B ₹30,000
- C ₹25,000
- D ₹26,000

Answer: C

Explanation:

Let the cost price of the scooter = C

Profit% = 12%

$$\Rightarrow \text{Selling price of the scooter} = \frac{112}{100} C$$

Given, Selling price of the scooter = ₹28,000

$$\Rightarrow \frac{112}{100} C = 28000$$

$$\Rightarrow C = ₹25,000$$

\therefore Cost price of the scooter = ₹25,000

Hence, the correct answer is Option C

Question 62

If $A = \frac{x-1}{x+1}$, then the value of $A - \frac{1}{A}$ is:

A $\frac{-4(2x-1)}{x^2-1}$

B $\frac{x^2-1}{-4(2x-1)}$

C $\frac{x^2-1}{-4(2x+1)}$

D $\frac{-4x}{x^2-1}$

Answer: D

Explanation:

Given, $A = \frac{x-1}{x+1}$

$$A - \frac{1}{A} = \frac{x-1}{x+1} - \frac{x+1}{x-1}$$

$$= \frac{(x-1)^2 - (x+1)^2}{x^2-1}$$

$$= \frac{x^2 - 2x + 1 - (x^2 + 2x + 1)}{x^2 - 1}$$

$$= \frac{x^2 - 2x + 1 - x^2 - 2x - 1}{x^2 - 1}$$

$$= \frac{-4x}{x^2 - 1}$$

Hence, the correct answer is Option D

Question 63

If the angle between two radii of a circle be 130° , then the angle between the tangents at the end of these radii (in degrees) is:

A 50°

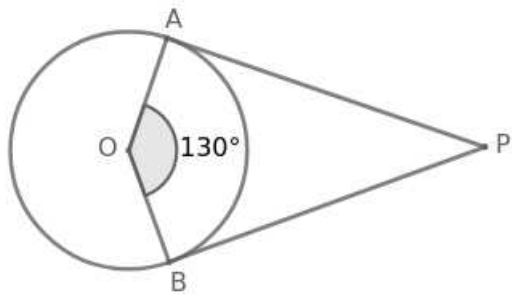
B 90°

C 40°

D 70°

Answer: A

Explanation:



Angle between the two radii OA and OB = 130°

PA and PB are tangents at A and B to the circle

$$\Rightarrow \angle OAP = 90^\circ \text{ and } \angle OBP = 90^\circ$$

In quadrilateral OAPB,

$$\angle OAP + \angle AOB + \angle OBP + \angle APB = 360^\circ$$

$$\Rightarrow 90^\circ + 130^\circ + 90^\circ + \angle APB = 360^\circ$$

$$\Rightarrow 310^\circ + \angle APB = 360^\circ$$

$$\Rightarrow \angle APB = 50^\circ$$

\therefore Angle between the tangents = $\angle APB = 50^\circ$

Hence, the correct answer is Option A

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Question 64

In $\triangle ABC$, $AB = AC$, and $\angle BAC$ is 50° . Then $\angle ABC$ and $\angle BCA$ are, respectively:

A 70° and 75°

B 65° and 65°

C 50° and 55°

D 55° and 55°

Answer: B

Explanation:

In $\triangle ABC$, $AB = AC$

Angles opposite to equal sides in triangle are equal.

$$\Rightarrow \angle BCA = \angle ABC$$

$$\text{Let } \angle ABC = \angle BCA = x$$

In $\triangle ABC$,

$$\angle ABC + \angle BCA + \angle BAC = 180^\circ$$

$$\Rightarrow x + x + 50^\circ = 180^\circ$$

$$\Rightarrow 2x = 130^\circ$$

$$\Rightarrow x = 65^\circ$$

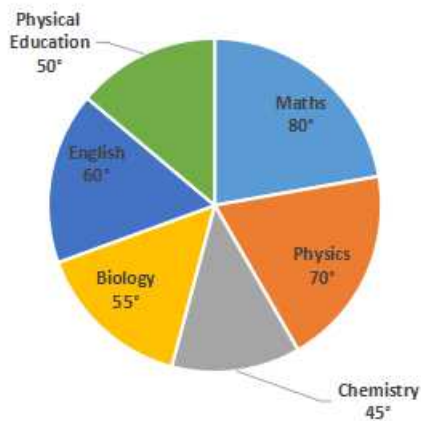
$\therefore \angle ABC = \angle BCA = 65^\circ$

Hence, the correct answer is Option B

Question 65

The given pie chart shows the marks obtained in an examination by a student (in degrees). Observe the pie chart and answer the question that follows.

Mark obtained in examination



If the total marks are 720, then the marks obtained in Mathematics are:

- A 140
- B 160
- C 120
- D 80

Answer: B

Explanation:

Given, total marks = 720

From the pie chart,

$$\text{Marks obtained in Mathematics} = \frac{80^\circ}{360^\circ} \times 720 = 160$$

Hence, the correct answer is Option B

Question 66

If $x - \frac{1}{x} = 13$, then the value of $x^2 + \frac{1}{x^2}$ is:

- A 165
- B 171
- C 167
- D 169

Answer: B

Explanation:

$$\text{Given, } x - \frac{1}{x} = 13$$

$$\Rightarrow \left(x - \frac{1}{x}\right)^2 = 13^2$$

$$\Rightarrow x^2 - 2 \cdot x \cdot \frac{1}{x} + \frac{1}{x^2} = 169$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 = 169$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 171$$

Hence, the correct answer is Option B

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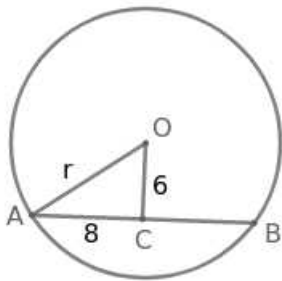
Question 67

In a circle centred at O, AB is a chord and C is any point on AB, such that OC is perpendicular to AB. If the length of the chord is 16 cm and OC = 6 cm, the radius of circle is:

- A 8 cm
- B 12 cm
- C 10 cm
- D 6 cm

Answer: C

Explanation:



Let the radius of the circle = r

Given, AB = 16 cm, OC = 6 cm

OC is perpendicular to the chord AB.

In a circle, perpendicular from centre of the circle to the chord bisects the chord.

$$\Rightarrow AC = BC = 8 \text{ cm}$$

In $\triangle OAC$,

$$AC^2 + OC^2 = OA^2$$

$$\Rightarrow 8^2 + 6^2 = r^2$$

$$\Rightarrow 64 + 36 = r^2$$

$$\Rightarrow r^2 = 100$$

$$\Rightarrow r = 10 \text{ cm}$$

\therefore Radius of the circle = 10 cm

Hence, the correct answer is Option C

Question 68

The volume of a cube is 343 cm^3 . The edge of cube is:

- A 7 cm
- B 6 cm
- C 5 cm

D 4 cm

Answer: A

Explanation:

Let the edge of the cube = a

Volume of the cube = a^3

Given, Volume of the cube = 343 cm^3

$$\Rightarrow a^3 = 343$$

$$\Rightarrow a^3 = 7^3$$

$$\Rightarrow a = 7 \text{ cm}$$

\therefore Edge of the cube = 7 cm

Hence, the correct answer is Option A

Question 69

The value of $7 + [44 \div 4 + 9 \times 2 - 14 \div 7 + 5 \times 2]$ is:

A 44

B 55

C 33

D 67

Answer: A

Explanation:

$$7 + [44 \div 4 + 9 \times 2 - 14 \div 7 + 5 \times 2] = 7 + [11 + 9 \times 2 - 2 + 5 \times 2]$$

$$= 7 + [11 + 18 - 2 + 10]$$

$$= 7 + [39 - 2]$$

$$= 7 + [37]$$

$$= 44$$

Hence, the correct answer is Option A

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Question 70

The value of $\frac{\cos 29^\circ \operatorname{cosec} 61^\circ \tan 45^\circ + 2 \sin 35^\circ \sec 55^\circ}{3 \sin^2 42^\circ + 3 \sin^2 48^\circ}$ is

A 0

B 1

C 3

D 2

Answer: B

Explanation:

$$\frac{\cos 29^\circ \operatorname{cosec} 61^\circ \tan 45^\circ + 2 \sin 35^\circ \sec 55^\circ}{3 \sin^2 42^\circ + 3 \sin^2 48^\circ} = \frac{\cos 29^\circ \frac{1}{\sin 61^\circ} (1) + 2 \sin 35^\circ \frac{1}{\cos 55^\circ}}{3 \sin^2 42^\circ + 3[\sin(90-42^\circ)]^2}$$

$$\begin{aligned}
& \cos 29^\circ \sin(90-29^\circ) + 2 \sin 35^\circ \cos(90-35^\circ) \\
= & 3 \sin^2 42^\circ + 3[\cos 42^\circ]^2 \\
& \cos 29^\circ \cos 29^\circ + 2 \sin 35^\circ \sin 35^\circ \\
= & 3 \sin^2 42^\circ + 3 \cos^2 42^\circ \\
= & 3(\sin^2 42^\circ + \cos^2 42^\circ) \\
= & 3 \\
= & 1
\end{aligned}$$

Hence, the correct answer is Option B

Question 71

Mohan finishes a journey by scooter in 5 hours. He travels the first half of the journey at 30 km/h and the second half of the journey at 20 km/h. The distance covered by him is:

- A 130 km
- B 120 km
- C 140 km
- D 100 km

Answer: B

Explanation:

Let the total distance covered by Mohan = d

Time taken by Mohan to cover the first half = $\frac{\frac{d}{2}}{30} = \frac{d}{60}$ hours

Time taken by Mohan to cover the second half = $\frac{\frac{d}{2}}{20} = \frac{d}{40}$ hours

Total time for the journey = 5 hours

$$\Rightarrow \frac{d}{60} + \frac{d}{40} = 5$$

$$\Rightarrow \frac{2d+3d}{120} = 5$$

$$\Rightarrow \frac{5d}{120} = 5$$

$$\Rightarrow d = 120 \text{ km}$$

\therefore Distance covered by Mohan = 120 km

Hence, the correct answer is Option B

Question 72

Each side of a rectangular field is increased by 10%. Then the percentage increase in the area of the field is:

- A 21%
- B 10%
- C 18%
- D 15%

Answer: A

Explanation:

Let the length and breadth of the rectangular field are l and b respectively.

Area of the rectangular field = lb

Length after increase of 10% = $\frac{110}{100}l$

Breadth after increase of 10% = $\frac{110}{100}b$

Area after increase in length and breadth = $\frac{110}{100} \times \frac{110}{100} lb = \frac{121}{100} lb$

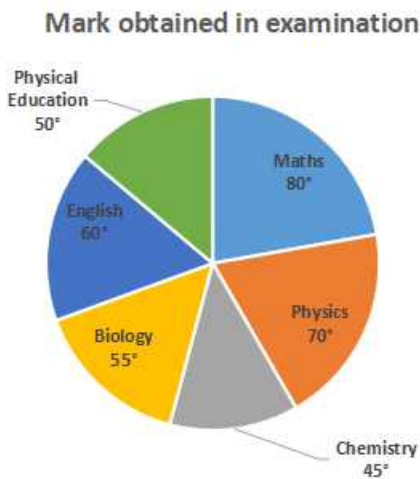
∴ Percentage increase in area of the field = $\frac{\frac{121}{100} lb - lb}{lb} \times 100 = \frac{21}{100} \times 100 = 21\%$

Hence, the correct answer is Option A

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Question 73

The given pie chart shows the marks obtained in an examination by a student (in degrees). Observe the pie chart and answer the question that follows.



If the total marks are 720, then the difference between the total marks obtained in Physics, Maths and Physical education and the total marks in Chemistry, Biology, and English out of the total marks is:

- A 90
- B 100
- C 80
- D 110

Answer: C

Explanation:

Given, total marks = 720

From the pie chart,

Total marks obtained in Physics, Maths, Physical education = $\frac{70^\circ + 80^\circ + 50^\circ}{360^\circ} \times 720 = 400$

Total marks obtained in Chemistry, Biology, English = $\frac{45^\circ + 55^\circ + 60^\circ}{360^\circ} \times 720 = 320$

∴ Required difference = 400 - 320 = 80

Hence, the correct answer is Option C

Question 74

If $x^3 - 6x^2 + ax + b$ is divisible by $(x^2 - 3x + 2)$, then the values of a and b are:

- A a = -6 and b = -11

- B** $a = -11$ and $b = 6$
- C** $a = 11$ and $b = -6$
- D** $a = 6$ and $b = 11$

Answer: C

Explanation:

Given, $x^3 - 6x^2 + ax + b$ is divisible by $(x^2 - 3x + 2)$

Let the quotient when $x^3 - 6x^2 + ax + b$ is divisible by $(x^2 - 3x + 2)$ be $x - p$

$$\Rightarrow (x^2 - 3x + 2)(x - p) = x^3 - 6x^2 + ax + b$$

$$\Rightarrow x^3 - 3x^2 + 2x - px^2 + 3px - 2p = x^3 - 6x^2 + ax + b$$

$$\Rightarrow x^3 - (3 + p)x^2 + (2 + 3p)x - 2p = x^3 - 6x^2 + ax + b$$

Comparing both sides,

$$-(3 + p) = -6$$

$$\Rightarrow p = 3$$

$$2 + 3p = a$$

$$\Rightarrow 2 + 3(3) = a$$

$$\Rightarrow a = 11$$

$$-2p = b$$

$$\Rightarrow -2(3) = b$$

$$\Rightarrow b = -6$$

$\therefore a = 11$ and $b = -6$

Hence, the correct answer is Option C

Question 75

The measure of one of the exterior angles of a triangle is twice one of the interior opposite angles and the measure of the other interior opposite angles is 60° . The triangle is a/an:

- A** equilateral triangle
- B** right triangle
- C** scalene triangle
- D** isosceles triangle

Answer: A

Explanation:

Given, two interior angles of the triangle is 60° .

\Rightarrow The third interior angle must be 60° as the sum of the interior angles is 180° .

\therefore The triangle is an equilateral triangle.

Hence, the correct answer is Option A

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Magnus Carlsen is associated with which game?

- A Badminton
- B Chess
- C Squash
- D Lawn Tennis

Answer: B

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Question 77

Proteins are assembled from how many amino acids?

- A 5
- B 10
- C 15
- D 20

Answer: D

Question 78

When was the Treaty of Amritsar signed?

- A 1809
- B 1824
- C 1819
- D 1825

Answer: A

Question 79

When was Safari first released by Apple?

- A 1998
- B 2003
- C 2002
- D 2001

Answer: B

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Question 80

Who among the following was one of the recipients of Rajiv Gandhi Khel Ratna Award 2019?

- A Sania Mirza
- B PV Sindhu
- C Virat Kohli
- D Deepa Malik

Answer: D

Question 81

Who was the President of India during the emergency of 1975-1977?

- A Fakhruddin Ali Ahmed
- B Varahagiri Venkatagiri
- C R Venkataraman
- D Giani Zail Singh

Answer: A

Question 82

When was the Eden Gardens Stadium, Kolkata established?

- A 1875
- B 1864
- C 1854
- D 1885

Answer: B

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Question 83

Who wrote the famous book 'The God of Small Things'?

- A Ruskin Bond
- B Arundhati Roy
- C Kiran Desai
- D Chetan Bhagat

Answer: B

Question 84

What is the sex ratio of Kerala as per census 2011?

- A 1084
- B 1044
- C 1024
- D 1064

Answer: A

Question 85

When was the 44th Constitutional Amendment Act enacted?

- A 1975
- B 1972
- C 1976
- D 1978

Answer: D

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Question 86

Which state ranked first in Sustainable Development Goals Index 2019-20 released by NITI Aayog of India?

- A Andhra Pradesh
- B Tamil Nadu
- C Himachal Pradesh
- D Kerala

Answer: D

Question 87

In the field of computing, what does VGA stand for?

- A Video Graphics Array
- B Video Graphics Audio
- C Visual Graphics Audio
- D Visual Graphics Array

Answer: A

Question 88

When was the Secretariat of the SAARC set up?

- A 1984
- B 1987

C 1985

D 1986

Answer: B

SSC CGL Previous Papers (DOWNLOAD PDF)

Question 89

What type of unemployment is generally found in agricultural sector of India?

A Voluntary unemployment

B Disguised unemployment

C Frictional unemployment

D Structural unemployment

Answer: B

Question 90

Which award has been given to Narthaki Nataraj in 2019?

A Padma Vibhushan

B Bharat Ratna

C Padma Shri

D Padma Bhushan

Answer: C

Question 91

Who is the newest Chief of Indian Army in December 2019?

A Bikram Singh

B Devraj Anbu

C Manoj Mukund Naravane

D Bipin Rawat

Answer: C

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Question 92

Who has been declared as 'Men's Player of the Year 2019' by the International Hockey Federation?

A Manpreet Singh

B Arthur van Doren

C Aran Zalewski

D Lucas Vila

Answer: A

Question 93

The Raleigh Commission (1902) was appointed to recommend reforms in:

A draught management

B the police system

C the education system

D the judicial system

Answer: C

Question 94

Dachigam National Park is in which state of India?

A Himachal Pradesh

B West Bengal

C Uttarakhand

D Jammu and Kashmir

Answer: D

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Question 95

What is the relative density of silver?

A 10.8

B 9.5

C 10.4

D 7.2

Answer: A

Question 96

Ustad Alladiya Khan belongs to which gharana of Hindustani music?

A Agra gharana

B Gwalior gharana

C Benaras gharana

D Jaipur gharana

Answer: D

Question 97

Which of the following types of organisms have an open circulatory system?

- A Mollusca
- B Nematoda
- C Annelida
- D Birds

Answer: A

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Question 98

Saga Dawa is the festival of which state?

- A Tripura
- B Manipur
- C Sikkim
- D Assam

Answer: C

Question 99

What is the height of Tehri Dam?

- A 250.5 m
- B 270.5 m
- C 280.5 m
- D 260.5 m

Answer: D

Question 100

How many Indian states share border with Bhutan?

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

Answer: D

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