



GIC Assistant Exam 2013 Question paper

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General Awareness

Instructions

For the following questions answer them individually

Question 1

The term "Missile Man of India" is normally associated (after Pokharan II blasts) with :

- A Atal Behari Vajpayee
- B R. Chidambaram
- C A.P.J. Abdul Kalam
- D General V. P. Malik

Answer: C

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Question 2

The words 'Satyameva Jayate' in the State Emblem of India, have been adopted from which one of the following ?

- A Brahma Upanishad
- B Mudgala Upanishad
- C Mundaka Upanishad
- D None of these

Answer: C

Question 3

Name the only person who was awarded Nobel Prize, Padma Shree, Ppadma BhUshan, Padma Vibhushan and Bharat Ratna

- A J L Nehru
- B Indira Gandhi
- C Mother Teresa
- D Aurobindo Ghosh

Answer: C

Question 4

Approximately how many kilometers are represented by 1° of latitude ?

- A 421 km
- B 91 km
- C 111 km
- D 211 km

Answer: C

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Question 5

Which region of the root provides the penetration force ?

- A Root cap
- B Maturation region
- C Zone of cell division
- D Elongation region

Answer: A

Question 6

Which city is known as the Cockpit of Europe ?

- A Venice
- B Dublin
- C Barcelona
- D Belgium

Answer: D

Question 7

When was SAARC formed ?

- A November, 1984
- B December, 1985
- C December, 1986
- D March, 1989

Answer: B

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Question 8

In which types of rocks would you find coal and petroleum ?

- A Igneous
- B Sedimentary
- C Granite
- D Metamorphic

Answer: B

Question 9

Sunlight always overcomes the lights of the stars. The fading away of stars in the presence of the sun is known as -

- A eclipse of the stars
- B occultation
- C blinding effect
- D None of these

Answer: B

Question 10

Pondicherry territory is scattered in several states. Which state does not share boundary with Pondicherry ?

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

Answer: C

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Question 11

Japan's attack on which place brought the USA into Second World War ?

- A Seychelles
- B Pearl Harbour
- C Florida
- D New York

Answer: B

Question 12

Commercial services were started on All India Raio for the first time in :

- A 1957
- B 1959
- C 1967
- D 1969

Answer: A

Question 13

SaheediAzam Bhagat Singh Rajguru and Sukhdev were executed by the British Government on 23 March, 1931. In which of the following cases they were implicated ?

- A Meerut Conspiracy
- B Kakori Conspiracy
- C For lobbing bomb in the Assembly Hall
- D Lahore Conspiracy

Answer: D

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Question 14

What is the fly Leaf ?

- A thin paper sheet for making packaging material
- B a blank page at the beginning or end of a book
- C a marker in a book
- D a sheet of paper next to the main title of the book

Answer: B

Question 15

Now a days Kalinga is known as :

- A Odisha
- B Kohima
- C Karnataka
- D Maharashtra

Answer: A

Question 16

Tughlaq dynasty occupied Delhi throne after decline of :

- A Suri dynasty
- B Slave dynasty
- C Lodhi dynasty
- D Khilji dynasty

Answer: D

Question 17

MAD stands for

- A Most Active Disease,

- B Mica Aluminium Duo
- C Mutually Assured Death
- D Mutually Assured Destruction

Answer: D

Question 18

Which has the highest share of electrical power generation in India ?

- A Thermal power
- B Nuclear power
- C Hydropower
- D Naphtha based and gas based power

Answer: A

Question 19

“Water water everywhere but not a drop to drink” who stated these lines in a poem ?

- A John Milton
- B Samuel Taylor Coleridge
- C Lord Byron
- D P. B. Shelly

Answer: B

Question 20

How can a person move on a hard icy surface ?

- A He should use roller skates
- B He s'nould hop, sneeze, jump and step in the direction which is opposite to the direction of his required movement.
- C He should hop, sneeze, jump and step in the direction in which the movement is required.
- D He should skid on his knees and hands

Answer: A

Question 21

Kolar Gold Mines are in the state .

- A Karnataka
- B Bihar
- C Odisha

D Madhya Pradesh

Answer: A

Question 22

The Permanent Secretariat of SAARC is at :

A Islamabad

B New Delhi

C Kathmandu

D Colombo

Answer: C

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Question 23

If the child loses water and vital nutrients due to diarrhoea and fever, then the housewife must treat him with

A ORS

B Penicillin capsules

C Crocin Syrup

D Plain water without salt

Answer: A

Question 24

The Shimla Conference was held in :

A 1943

B 1945

C 1942

D 1944

Answer: B

Question 25

He was an Italian Navigator. He explored Venezuela, Gulf of Mexico. The USA was named 'America' after him. His name is :

A Amerigo Vespucci

B Vasco De Gamma

C Columbus

D Andreas Vesalius

Answer: A

Explanation:
ENGLISH



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English

Instructions

In each of the following questions, a bold printed part of the sentence may have an error. The sentence may be made meaningful and correct by replacing the bold printed part with one of the given alternatives a, b, c and d. The number of that alternative is the answer.

Question 26

Shapes of gods and goddesses are worshipped by people ?

- A Images
- B Reflections
- C Clay shapes
- D Clay toys

Answer: A

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Question 27

We can not always convey ourselves in simple sentences.

- A Cannot always convey
- B Can not always express
- C Cannot always express
- D No correction required

Answer: C

Question 28

One of the most significant phenomenons of our time has been the development of the cinema.

- A Phenomenon
- B Phenomena
- C Phenomenonna
- D No correction required

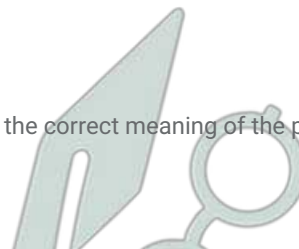
Answer: B

Instructions

Some proverbs/idioms are given below with their meanings. Choose the correct meaning of the proverb/ idiom.

Question 29

To catch a tartar :



- A To trap wanted criminal with great difficulty
- B To catch a dangerous person
- C To meet with disaster
- D To deal with a person who is more than one's watch

Answer: B

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Question 30

To be above board :

- A To have a good height
- B To be honest in any business deal
- C To have no debts
- D To try to be beautiful

Answer: B

Instructions

In questions given below, out of the four alternatives. Choose the one which can be substituted for the given words/sentences.

Question 31

One who is fond of fighting :

- A Bellicose
- B Aggressive
- C Belligerent
- D Militant

Answer: A

Question 32

Tending to move away from the centre or axis :

- A Centrifugal
- B Centripetal
- C Axiomatic
- D Awry

Answer: A

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Instructions

In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, four words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case. Studies of cognitive development have shown that the child's ability to use generalised(1).... develops more slowly in history than in any other school subjects. This typical development of reasoning in historical „ (2).... makes it necessary for the historian to focus upon events that may be included in the text. In many cases, the historical may need to (3) with special effort a generalised understanding of key concepts to be used in reference. This ... (4) may well mean that school history cannot cover as many events as it does at present. Also, school histories may have to provide for topic work or theme based description rather than merely observe (5) conformity.

Question 33

(1)

- A tasks
- B concept
- C procedures
- D theories

Answer: B

Question 34

(2)

- A chronology
- B arena
- C perspective
- D conformity

Answer: C

Question 35

(3)

- A tackle
- B grapple
- C provide
- D deliver

Answer: C

Question 36

(4)

- A necessity
- B requirement
- C understanding

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D rationale

Answer: A

Question 37

(5)

A internal

B metaphorical

C eternal

D chronological

Answer: D

Instructions

Choose the best alternative that fits at both the places in the context of each sentence.

Question 38

i. Our office decided to organise a party for the ___ couple.

ii. She ___ him in conversation to while away some time.

A New

B Engaged

C Pledged

D Held

Answer: B

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Question 39

i. The organisation decided on an hourly minimum ___ of Rs. 35.

ii. Will they ___ a war on these fronts to improve things ?

A Pay

B Declare

C Pose

D Wage

Answer: D

Instructions

In each of the following sentence, error is marked in bold letters. You have to correct it by choosing the correct alternative.

Question 40

India has **always** been primarily an agricultural country.

A Always be

- B Been towards
- C Become always
- D No correction required

Answer: D

Question 41

The light has been taken out from our lives.

- A Out of
- B Away from
- C Out off
- D Away of

Answer: A

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Instructions

Rearrange the words to form a meaningful sentence.

Question 42

My / type / of / He / is / not
1 2 3 4 5 6

- A 4 5 6 3 2 1
- B 4 5 3 2 1 6
- C 6 3 4 5 2 1
- D None of these

Answer: A

Question 43

Hosted / a / party / she / later / lunch
1 2 3 4 5 6

- A 5 4 1 2 6 3
- B 5 3 2 1 6 4
- C 4 3 2 1 5 6
- D None of these

Answer: D

Instructions

Choose the wrongly spelt word

Question 44

- A Controvertial
- B Impressed
- C Pretend
- D Enclosure

Answer: A

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Question 45

- A Exposeure
- B Whining
- C Inauguration
- D Diligent .

Answer: A

Instructions

Rearrange the following six sentences in the proper sequenceto form a Meaningful paragraph : then answer the questions given' below them :

- (a) The current of the flowing water was high and was capable of taking away the trees with it.
- (b) Some children were playing over the water way.
- (c) On the town of Mandogini, there was a lake.
- (d) The water was running fast and above the water way.
- (e) One day the heavy rain overflowed the lake.
- (6) A man watched them and saved their life.

Question 46

Which of the following is the first sentence ?

- A b
- B c
- C d
- D f

Answer: B

Question 47

Which of the following is the fourth sentence ?

- A d
- B f
- C e
- D b

Answer: D

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Question 48

Which of the following is the third sentence ?

- A a
- B c
- C d
- D e

Answer: C

Question 49

Which of the following is the last (sixth) sentence ?

- A a
- B d
- C f
- D c

Answer: C

Question 50

Which of the following is second sentence ?

- A b
- B f
- C d
- D e

Answer: D

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Quant

Instructions

For the following questions answer them individually

Question 51

Two trains of equal length are running on parallel lines in the same direction at 46 km/h and 36 km/h. The faster train passes, the slower train in 36 sec. The length of each train is :

- A 50 m
- B 80 m

C 72 m

D 82 m

Answer: A

Explanation:

Let length of each train = x m

Speed of the trains = 46 km/hr and 36 km/hr

Since, the trains are moving in same direction, \Rightarrow Relative speed = $46 - 36 = 10$ km/hr

$$= 10 \times \frac{5}{18} = \frac{25}{9} \text{ m/s}$$

Time taken = 36 sec

$$\therefore \frac{x + \frac{25}{9}x}{9} = 36$$

$$\Rightarrow 2x = 36 \times \frac{25}{9}$$

$$\Rightarrow 2x = 4 \times 25 = 100$$

$$\Rightarrow x = \frac{100}{2} = 50 \text{ m}$$

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Question 52

A parallelopiped whose sides are in ration 2 : 4 : 8 has the same volume as a cube. The ratio of their surface areas is:

A 4 : 3

B 8 : 5

C 7 : 6

D 7 : 5

Answer: C

Explanation:

Let length of parallelopiped = $2x$ units

Breadth = $4x$ units and height = $8x$ units

Let side of cube = a units

Acc. to ques, volume of cube = volume of parallelopiped

$$\Rightarrow a^3 = 2x \times 4x \times 8x$$

$$\Rightarrow a^3 = 64x^3$$

$$\Rightarrow a = \sqrt[3]{64x^3} = 4x \text{ units}$$

Now, surface area of parallelopiped = $2(lb + bh + hl)$

$$= 2(8x^2 + 32x^2 + 16x^2)$$

$$= 2 \times 56x^2 = 112x^2 \text{ sq. units}$$

Surface area of cube = $6a^2$

$$= 6(4x)^2 = 96x^2$$

$$\therefore \text{Required ratio} = \frac{112x^2}{96x^2}$$

$$= 7 : 6$$

Question 53

The parallel sides of a trapezium are in a ratio 2 : 3 and their shortest distance is 12 cm. If the area of the trapezium is 480 sq. cm, the longer of the parallel sides is of length.

- A 36 cm
- B 42 cm
- C 48 cm
- D 56 cm

Answer: C

Explanation:

Let the shorter of the parallel side, $a = 2x$ cm

=> Longer of the parallel side, $b = 3x$ cm

Height of trapezium, $h = 12$ cm

=> Area of trapezium = $\frac{1}{2} \times h \times (a + b) = 480$

=> $\frac{1}{2} \times 12 \times (2x + 3x) = 480$

=> $6 \times 5x = 480$

=> $x = \frac{480}{30} = 16$

\therefore Longer of the parallel side = $3 \times 16 = 48$ cm

Question 54

If $2x + y = 6$ and $x = 2$ are two linear equations, then graph of two equations meet a point :

- A (0, 2)
- B (2, 2)
- C (1, 2)
- D (2, 0)

Answer: B

Explanation:

Equations : $2x + y = 6$ and $x = 2$

For the two equations to meet, we need to put $x = 2$ in (i) equation

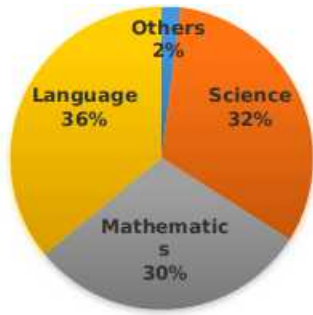
=> $2(2) + y = 6$

=> $y = 6 - 4 = 2$

\therefore The two equations will meet at = (2, 2)

Instructions

The following pie chart shows the number of students who failed in different subjects in an examination. Examine the chart and answer the questions.



■ Others ■ Science ■ Mathematics ■ Language

THE TOTAL NUMBER OF STUDENTS WHO HAVE FAILED IS 500.

Question 55

Total number of students who did not qualify in Mathematics or Language or Science, is:

- A 490
- B 480
- C 470
- D 460

Answer: A

Explanation:

Total students = 500

Subjects	Students failed
Science	160
Mathematics	150
Language	180
Others	10

Total number of students who did not qualify in Mathematics or Language or Science

= Total students - Students who failed in others

= 500 - 10 = 490

Question 56

The number of students failed in science is less than the number of students failed in all other subjects by

- A 140
- B 180
- C 160
- D 170

Answer: B

Explanation:

Total students = 500

Subjects	Students failed
Science	160
Mathematics	150
Language	180
Others	10

Number of students failed in all other subjects = $150 + 180 + 10 = 340$

Number of students failed in science = 160

=> Required difference = $340 - 160 = 180$

Question 57

Number of students who failed in mathematics is less than the students who did not qualify in language is

- A 40
- B 30
- C 50
- D 20

Answer: B

Explanation:

Total students = 500

Subjects	Students failed
Science	160
Mathematics	150
Language	180
Others	10

Number of students who failed in mathematics is less than the students who did not qualify in language

= $180 - 150 = 30$

Instructions

For the following questions answer them individually

Question 58

Profit after selling an article for Rs. 425 is the same as loss after selling it for Rs. 355. The cost of the article is :

- A Rs. 385
- B Rs. 390
- C Rs. 395
- D Rs. 400

Answer: B

Explanation:

Let C.P. = Rs. x

Case 1 : If S.P. = Rs. 425

$$\Rightarrow \text{Profit} = S.P. - C.P. = (425 - x)$$

Case 2 : If S.P. = Rs. 355

$$\Rightarrow \text{Profit} = C.P. - S.P. = (x - 355)$$

Acc. to ques, $\Rightarrow 425 - x = x - 355$

$$\Rightarrow 2x = 425 + 355 = 780$$

$$\Rightarrow x = \frac{780}{2} = \text{Rs. } 390$$

Question 59

If each edge of a cube is increased by 50%, the percentage increase in its surface area is

- A 125%
- B 150%
- C 75%
- D 100%

Answer: A

Explanation:

Let edge of cube, $a = 10$ cm

$$\text{Surface Area, } S = 6a^2 = 6(10)^2 = 600\text{cm}^2$$

When edge is increased by 50%

$$\Rightarrow \text{New edge of cube, } a' = 10 + \frac{50}{100} \times 10 = 15 \text{ cm}$$

$$\text{New surface area, } S' = 6(a')^2 = 6(15)^2 = 1350\text{cm}^2$$

$$\therefore \% \text{ increase in surface area} = \frac{1350 - 600}{600} \times 100$$
$$= \frac{750}{600} = 125\%$$

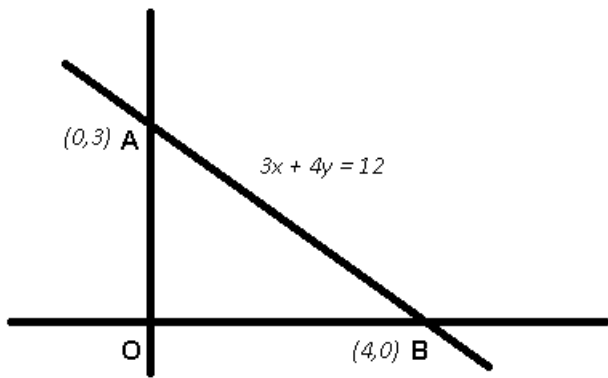
Question 60

The area (in sq. unit) of the triangle formed in the first quadrant by the line $3x + 4y = 12$ is

- A 4
- B 8
- C 12
- D 6

Answer: D

Explanation:



Equation : $3x + 4y = 12$

Let the line cut x-axis at point B, \Rightarrow y-coordinate = 0

$$\Rightarrow 3x + 4(0) = 12$$

$$\Rightarrow x = \frac{12}{3} = 4$$

$$\Rightarrow B = (4, 0)$$

Similarly, $A = (0, 3)$

Thus, length of OA = 3 units and OB = 4 units

$$\therefore \text{Area of } \triangle OAB = \frac{1}{2} \times OA \times OB$$

$$= \frac{1}{2} \times 4 \times 3$$

$$= 2 \times 3 = 6 \text{ sq. units}$$

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Question 61

The perimeter of an isosceles right angled triangle is $2p$ cm. Its area is

- A $(2 + \sqrt{2})p^2$ sq cm
- B $(3 - 2\sqrt{2})p$ sq cm
- C $(3 - 2\sqrt{2})p^2$ sq cm
- D $(2 - \sqrt{2})p$ sq cm

Answer: C

Explanation:

Let the two equal sides (base and height) = x cm and hypotenuse = y cm

$$\Rightarrow \text{Perimeter} = 2x + y = 2p$$

$$\Rightarrow y = 2p - 2x \text{ -----Eqn(i)}$$

Since, it is a right angled triangle, $\Rightarrow x^2 + x^2 = y^2$

$$\Rightarrow 2x^2 = y^2$$

$$\text{From (i), } \Rightarrow 2x^2 = 4(p - x)^2$$

$$\Rightarrow 2x^2 = 4p^2 + 4x^2 - 8px$$

$$\Rightarrow 2x^2 - 8px + 4p^2 = 0$$

$$\Rightarrow x^2 - 4px + 2p^2 = 0$$

$$\Rightarrow x = \frac{4p \pm \sqrt{16p^2 - 8p^2}}{2}$$

$$\Rightarrow x = \frac{4p \pm 2p\sqrt{2}}{2}$$

$$\Rightarrow x = 2p \pm \sqrt{2}p$$

$$\therefore \text{Perimeter} = 2p, \Rightarrow x \neq (2p + \sqrt{2}p)$$

$$\Rightarrow x = p(2 - \sqrt{2})$$

$$\therefore \text{Area of triangle} = \frac{1}{2} \times x \times x = \frac{1}{2} \times x^2$$

$$= \frac{1}{2} \times [p(2 - \sqrt{2})]^2$$

$$= \frac{1}{2} \times p^2 \times (4 + 2 - 4\sqrt{2})$$

$$= \frac{1}{2} \times p^2 \times (6 - 4\sqrt{2}) = p^2(3 - 2\sqrt{2}) \text{ cm}^2$$

Question 62

The length of a train and a platform is equal. The train at the speed of 90km/hr crosses the platform in 1 minute. What is the length of platform ?

- A 750 m
- B 690 m
- C 760 m
- D 810 m

Answer: A

Explanation:

Let length of train = train of platform = x m

$$\text{Speed of train} = 90 \times \frac{5}{18} = 25 \text{ m/s}$$

Time taken = 1 min = 60 sec

$$\Rightarrow \frac{x+x}{25} = 60$$

$$\Rightarrow 2x = 60 \times 25 = 1500$$

$$\Rightarrow x = \frac{1500}{2} = 750 \text{ m}$$

Question 63

A man covered a certain distance of one side by cycle and other side by scooter in 2 hours 20 minutes. If he had covered the total distance by cycle then time consumed was 3 hours 30 minutes. In what time he can cover the distance by scooter ?

- A 1 hr 15 minutes
- B 1 hr 10 minutes
- C 1 hr 40 minutes
- D 2 hr 5 minutes

Answer: B

Explanation:

Let the total distance = $2x$ km, then distance of one side = x km

Let speed of cycle = c km/hr and speed of scooter = s km/hr

$$\text{Acc. to ques, } \Rightarrow \frac{2x}{c} = 3\frac{1}{2}$$

$$\Rightarrow \frac{x}{c} = \frac{7}{4}$$

$$\text{Also, } \frac{x}{c} + \frac{x}{s} = 2\frac{1}{3}$$

$$\Rightarrow \frac{7}{4} + \frac{x}{s} = 3$$

$$\Rightarrow \frac{x}{s} = 3 - \frac{7}{4} = \frac{7}{4}$$

Since, total distance = $2x$, multiplying both sides by 2, we get :

$$\Rightarrow \frac{2x}{s} = \frac{7}{6}$$

Thus, total time taken to cover the distance by scooter = $\frac{7}{6} \times 60 = 70$ minutes

= 1 hr 10 minutes

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Question 64

Find the true discount on a bit for Rs. 1270 due in 7 months hence at 10% per annum.

A Rs. 1050

B Rs. 110

C Rs. 1120

D Rs. 70

Answer: D

Explanation:

Amount = Rs. 1,270

Let true discount (interest) = Rs. x

$$\Rightarrow \text{Principal} = \text{Rs.}(1270 - x)$$

Time = 7 months and rate = 10 %

$$\therefore \frac{(1270-x) \times 10 \times \frac{7}{12}}{100} = x$$

$$\Rightarrow (1270 - x) \times \frac{7}{12} = 10x$$

$$\Rightarrow (1270 \times 7) - 7x = 120x$$

$$\Rightarrow 1270 \times 7 = 120x + 7x = 127x$$

$$\Rightarrow x = \frac{1270 \times 7}{127}$$

$$\Rightarrow x = 10 \times 7 = \text{Rs.}70$$

Question 65

A and B jointly invest Rs. 2100 and Rs. 3100 respectively in a f. A is an active partner and he gets 25% of the profit separately. If their business yields them total Rs. 1,040 as profit what will be the gain of each of them ?

A Rs. 415, Rs. 625

B RS. 575, Rs: 465

C Rs. 515, Rs. 525

D Rs. 560, Rs. 480

Answer: B

Explanation:

A and B jointly invest Rs. 2,100 and Rs. 3,100 respectively

Ratio of profit received by A and B = 2100 : 3100

$$\Rightarrow A : B = 21 : 31$$

Total profit = Rs. 1,040

But A gets 25 % of the profit separately.

$$\Rightarrow \text{Amount received by A separately} = \frac{25}{100} \times 1040 = \text{Rs.}260$$

$$\text{Profit left} = 1040 - 260 = 780$$

$$\text{Now, profit received by B} = \frac{31}{21+31} \times 780$$

$$= 31 \times 15 = 465$$

$$\text{Profit received by A} = 780 - 465 = 315$$

$$\therefore \text{Total amount received by A} = 260 + 315 = \text{Rs.}575$$

$$\text{Total amount received by B} = \text{Rs.}465$$

Question 66

Circumference of two concentric circles are 176m and 132m. What is the different between their radii ?

A 8 m

B 9 m

C 11 m

D 7 m

Answer: D

Explanation:

Let radius of smaller circle = r_1 m

Radius of bigger circle = r_2 m

Circumference of smaller circle = $2\pi r_1 = 132$

$$\Rightarrow \pi r_1 = \frac{132}{2} = 66 \text{ -----(i)}$$

$$\text{Similarly, } \pi r_2 = \frac{176}{2} = 88 \text{ -----(ii)}$$

Subtracting eqn(i) from (ii), we get :

$$\Rightarrow \pi(r_2 - r_1) = 88 - 66$$

$$\Rightarrow r_2 - r_1 = \frac{22}{\pi} \times \frac{\pi}{22} = 7 \text{ m}$$

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Question 67

A rectangular field is 90 m × 50 m Inside the field there is path of width 5 m borderine the field. What is the area of the path ?

A 1450 sq. m

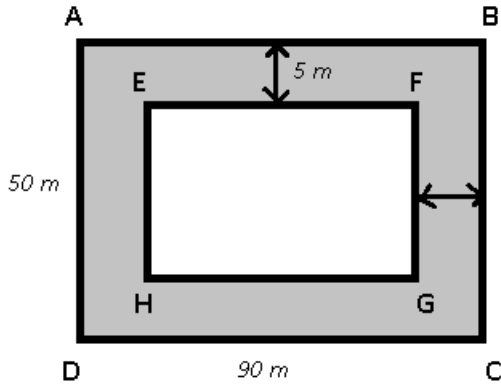
B 1100 sq. m

C 1000 sq. m

D 1300 sq. m

Answer: D

Explanation:



To find : Area of shaded region

Solution : Area of field ABCD = $90 \times 50 = 4500m^2$

Width of path = 5 m

$\Rightarrow GH = 80 \text{ m}$ and $EH = 40 \text{ m}$

\Rightarrow Area of EFGH = $80 \times 40 = 3200m^2$

\therefore Area of path = Area of ABCD - Area of EFGH

= $4500 - 3200 = 1300m^2$

Question 68

The value of k for which $(x-2)$ is a factor of $(x^2 - kx + 2)$ is :

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

Answer: B

Explanation:

If $(x - a)$ is a factor of $f(x)$, then $f(a) = 0$

Now, $(x - 2)$ is factor of $f(x) = (x^2 - kx + 2)$

Thus, putting $x = 2$

$\Rightarrow f(2) = (2^2 - 2k + 2) = 0$

$\Rightarrow -2k = 0 - 4 - 2 = -6$

$\Rightarrow k = \frac{-6}{-2} = 3$

Question 69

If $x - 1/x = 3$, The value of $x^2 + 1/x^2$ is

- A 2
- B 12
- C 10

D 11

Answer: D

Explanation:

Expression : $x - \frac{1}{x} = 3$

Squaring both sides, we get :

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 \cdot x \cdot \frac{1}{x} = 9$$

$$\Rightarrow x^2 + \frac{1}{x^2} - 2 = 9$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 9 + 2 = 11$$

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Question 70

Diameter of a roller is 2.4 m and it is 1.68 m long. If it takes 1000 complete revolutions once over to level a field, the area of the field is

A 12672 sq. m

B 12671 sq. m

C 12762 sq. m

D 11768 sq. m

Answer: A

Explanation:

Radius of roller = 1.2 m and height = 1.68 m

Area covered in 1 revolution = $2\pi rh$

$$= 2 \times \frac{22}{7} \times 1.2 \times 1.68$$

$$= 44 \times 1.2 \times 0.24 = 12.672m^2$$

∴ Area of the field = Area covered in 1000 revolutions

$$= 12.672 \times 1000 = 12672m^2$$

Question 71

If each edge of a cube is increased by 10% then by how much percent will the surface area of this cube be increased ?

A 21%

B 18%

C 15%

D 20%

Answer: A

Explanation:

Let edge of cube, $a = 10$ cm

$$\text{Surface Area, } S = 6a^2 = 6(10)^2 = 600cm^2$$

When edge is increased by 10%

$$\Rightarrow \text{New edge of cube, } a' = 10 + \frac{10}{100} \times 10 = 11 \text{ cm}$$

$$\text{New surface area, } S' = 6(a')^2 = 6(11)^2 = 726 \text{ cm}^2$$

$$\therefore \% \text{ increase in surface area} = \frac{726-600}{600} \times 100$$

$$= \frac{126}{600} \times 100 = 21\%$$

Question 72

The value of $\cos 105^\circ + \sin 105^\circ$ is

- A 0
- B $\frac{\sqrt{3}}{2}$
- C $\frac{1}{\sqrt{2}}$
- D $\frac{(\sqrt{3}+1)}{2}$

Answer: C

Explanation:

Using, $\cos(x+y) = \cos x \cos y - \sin x \sin y$

and $\sin(x+y) = \sin x \cos y + \cos x \sin y$

Expression : $\cos 105^\circ + \sin 105^\circ$

$$= \cos(60 + 45) + \sin(60 + 45)$$

$$= (\cos 60 \cdot \cos 45 - \sin 60 \cdot \sin 45) + (\sin 60 \cdot \cos 45 + \cos 60 \cdot \sin 45)$$

$$= \left(\frac{1}{2} \cdot \frac{1}{\sqrt{2}} - \frac{\sqrt{3}}{2} \cdot \frac{1}{\sqrt{2}} \right) + \left(\frac{\sqrt{3}}{2} \cdot \frac{1}{\sqrt{2}} + \frac{1}{2} \cdot \frac{1}{\sqrt{2}} \right)$$

$$= \frac{1}{2\sqrt{2}} - \frac{\sqrt{3}}{2\sqrt{2}} + \frac{\sqrt{3}}{2\sqrt{2}} + \frac{1}{2\sqrt{2}}$$

$$= \frac{1+1}{2\sqrt{2}} = \frac{2}{2\sqrt{2}}$$

$$= \frac{1}{\sqrt{2}}$$

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Question 73

The value of $\sin\left(67\frac{1}{2}\right) \sin\left(22\frac{1}{2}\right)$ is

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

Answer: C

Question 74

$$\sqrt[3]{x^6} \times \sqrt[3]{x^{-12}} \times x^{-3} \times \sqrt[3]{x^9}$$

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

Answer: D

Explanation:

$$\text{Expression: } \sqrt[3]{x^6} \times \sqrt[3]{x^{-12}} \times x^{-3} \times \sqrt[3]{x^9}$$

We know that, $\sqrt{x} = x^{\frac{1}{2}}$

$$= (x)^{\frac{6}{3}} \times (x)^{\frac{-12}{3}} \times x^{-3} \times (x)^{\frac{9}{3}}$$

$$= (x)^2 \times (x)^{-4} \times x^{-3} \times (x)^3$$

$$= (x)^{2-4} \times 1$$

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

Question 75

Which of the following is false for two congruent triangles :

- A Corresponding angles are equal
- B Two sides and included angles are equal.
- C Corresponding sides are equal
- D Two angles and one side are equal.

Answer: A

Explanation:

REASONING

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Reasoning

Instructions

Found the answer choice which give the same relation as it is found between two items to the left of the sign.

Question 76

AZBZ : CYDY :: EXFX : ?

- A GWHW
- B IVJW
- C HWIW
- D FWFV

Answer: A

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Question 77

QYGO : SAIQ :: TICKS : ?

- A WEMU
- B WDMV
- C WDLU
- D VENU

Answer: A

Question 78

ww_ x_ x_ yyzz_

- A wxxx
- B wxyz
- C xwzw
- D wzxy

Answer: B

Question 79

m_n m_n_a n_a_m a_

- A aamnan
- B ammanm
- C aammnn
- D amammn

Answer: C

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Instructions

For the following questions answer them individually

Question 80

A is the mother of D and sister of B. B has a daughter C who is married to F. G is the husband of A. How is G related to D ?

- A husband
- B father
- C son
- D uncle

Answer: C

Question 81

9 10 11
5 7 8
19 22 ?

- A 25
- B 24
- C 19
- D 41

Answer: B

Question 82

Some equations are solved on the basis of certain system. Find out the correct answer for the unsolved on that basis.

- A 16128
- B 81216
- C 162432
- D 163664

Answer: D

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Question 83

A solid cube is painted yellow on all sides. The cube is cut into 125 equal cubes. How many sides will have 3 sides yellow ?

- A 4
- B 8
- C 12
- D 10

Answer: B

Question 84

Arun travels 8 km towards the North, turns left and travels 3 km and then again turns right and covers another 4 km and then turns right and travels another 3 km. How far is he from the starting point ?

- A 11 km
- B 12 km
- C 15 km

D 18 km

Answer: B

Question 85

Animesh ranks eighteenth in a class of 47 students. What is his rank from the last ?

A 29th

B 30th

C 31st

D 32nd

Answer: B

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Question 86

Which one of following fruits is different from the other there ?

A Apple

B Mango

C Watermelon

D Guava

Answer: B

Question 87

If in a code PREMIER is written as XOILSIO, ANTACONISE is written as MQNMZBQSXI, then how can REPORT be written in the same code ?

5, 7, 11, ?, 35, 67

A OIXBMN

B Paddy

C Cotton

D Sugarcane

Answer: B

Question 88

Which one of the following is different from the other three?

A 2010

B 1512

C 3018

D 4527

Answer: A

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Question 89

How many 9's are there in the number series which are followed by 2 or 3 or 4 or 5 ?

9 3 9 2 9 4 9 5 9 5 9 2 0 9 0 9 2 9 3 9 4 9 5 9 6 9 9 9 8 9 4 9 2 9 3 9 4 9 5 9 6 9 9 9 8 9 9 9
9 9 2 9 3

- A 12
- B 10
- C 17
- D 16

Answer: C

Instructions

A bus starts from point 'S' and runs 10 kms. towards North. It takes a right turn and runs 15 kms. It now runs 6 kms after taking a left turn. It finally takes a left turn, runs 15 kms and stops at point T.

Question 90

How far is point 'T' with respect to point 'S'.

- A 15 km
- B 16 Km
- C km
- D 25 km

Answer: B

Question 91

Towards which direction was the vehicle moving before it stopped at point 'T' ?

- A West
- B South
- C North
- D East

Answer: A

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Instructions

For the following questions answer them individually

Question 92

Given the 25th February 2008 is Monday, what day is 2nd March of 2008 ?

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

Answer: C

Question 93

Age of Nareen is equal to Naveen as they are twins. Nakul is younger than Nareen. Priyanka is younger than Balaji but elder than Naveen. Who is the elder of all?

- A Nareen
- B Balaji
- C Nakul
- D Naveen

Answer: B

Question 94

Given interchanges : signs + and - numbers 8 and 10.

- A $8 - 10 + 6 = 12$
- B $10 - 8 + 7 = 4$
- C $10 + 8 - 9 = 16$
- D $10 - 8 + 3 = 10$

Answer: A

Question 95

Cause and effect relationship : RACE : FATIGUE

- A Track : Athlete
- B Ant : Bug
- C Fast : Hunger
- D Walking : Running

Answer: C

Question 96

Grammatical Relationship : RESTORE : CLIMB

- A Into : Nymph
- B Precipice : Although

C Segregation : Seem

D Overpower : Sethe

Answer: C

Question 97

Numerical Relationship : 4 : 12

A 10 : 16

B 3 : 4

C 9 : 27

D 12 : 6

Answer: C

Question 98

Which of the following is wrongly matched.

A Red Fort, Delhi

B Great Wall of China, China

C Humayun tomb, Delhi

D White House, Moscow

Answer: D

Question 99

How many such pairs of digits are there in the number 95137248 each of which has as many digit between them in the number as when they are arranged in ascending order ?

A One

B Two

C Three

D Four

Answer: A

Question 100

How many triangles are there in the adjoining figure?

A 12

B 10

C 6

D 11

Answer: A

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LIC Computer Knowledge

Instructions

For the following questions answer them individually

Question 101

The metal disks, which are permanently housed in, sealed and contamination free containers are called :

- A Hard Disk
- B Floppy Disk
- C Winchester Disk
- D Flexible Disk

Answer: C

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Question 102

Regarding a VDU, which statement is more correct ?

- A It is an output device
- B It is an input device
- C It is a peripheral device
- D It is hardware item

Answer: C

Question 103

A storage area used to store data to a compensate for the difference in speed at which the different units can handle data is →

- A Memory
- B Buffer
- C Accumulator
- D Address

Answer: B

Question 104

Which is used for manufacturing chips ?

- A Bus
- B Control Unit

C Semiconductors

D a: and b: only

Answer: C

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Question 105

What was the name of the first commercially available microprocessor chip ?

A Intel 308

B Intel 33

C Intel 4004

D Motorola 639

Answer: C

Question 106

An error in computer data is called :

A Chip

B Bug

C CPU

D Storage device

Answer: B

Question 107

File ___shrinks the size of a file so it requires less storage space :

A Scanning

B Synthesizing

C Defragmenting

D Compression

Answer: D

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Question 108

Which process checks to ensure the components of the computer are operating and connected properly ?

A Booting

B Processing

C Saving

D Editing

Answer: A

Question 109

_____ is processed by the computer into information.

A Numbers

B Processor

C Input

D Data

Answer: D

Question 110

A website address is a unique name that identifies a specific _____ on the Web.

A Web Browser

B Web Site

C PDA

D Link

Answer: B

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Question 111

A device that connects to a network without the use of cables is said to be _____.

A Distributed

B Centralized

C Open source

D Wireless

Answer: D

Question 112

Editing a document consists of reading through the document you've created. then _____.

A Correcting your errors

B Printing it

C Saving it

D Deleting it

Answer: A

Question 113

The internet allows you to ____.

- A Send electronic mail
- B View Web pages
- C Connect to servers all round the world
- D All of these

Answer: D

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Question 114

Most mail programs automatically complete the following two parts in an email:

- A From : and Body
- B From : and Date
- C From : and To
- D None of these

Answer: B

Question 115

A Safe Deposit Locker can be canvassed among ____.

- A All existing account
- B Persons below poverty line
- C Students
- D Jewellers

Answer: A

Question 116

A kind of serial dotmatrix printer that forms characters with magnetically charged ink sprayed dots is called ____

- A Laser Printer
- B Inkjet Printer
- C Drum Printer
- D Chan Printer

Answer: B

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Question 117

An output device that uses words or messages recorded on a magnetic medium to produce audio response is :

- A Magnetic tape
- B Voice response unit
- C Voice Band
- D Paper tape

Answer: B

Question 118

An approach that permits the computer to work on several programs instead of one is_____

- A One Line thesaurus
- B Multiprogramming
- C Overlapped processing
- D Outline processor

Answer: C

Question 119

The term gigabyte refers to :

- A 1024 bytes
- B 1024 kilobytes
- C 1024 megabytes
- D 1024 gigabytes

Answer: C

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Question 120

A/nDevice is any device that provides information, which is sent to the CPU :

- A Input
- B Output
- C CPU
- D Memory

Answer: A

Question 121

Which of the following is not an input device ?

- A OCR
- B Optical scanners
- C Voice Recognition device
- D COM (Computer Output to Microfilm)

Answer: D

Question 122

The computer code for the interchange of information between terminals is :

- A ASCII
- B BCD
- C EBCDIC
- D All of these

Answer: A

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Question 123

A byte consists of :

- A One bit
- B Four bits
- C Eight bits
- D Sixteen bits

Answer: C

Question 124

Information that comes from an external source and fed into computer software is called_____.

- A Batch Operating System
- B Real Time Operating System
- C Throughput
- D Reports

Answer: A

Question 125

The operating system that is selfcontained in a device and resident in the ROM is_____.

- A Batch Operating System
- B Real Time Operating System
- C Embedded Operating System
- D None of these

Answer: C

Explanation:
NUMERICAL ABILITY

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