



SSC CGL 5th March 2020 Shift-2

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General Intelligence and Reasoning

Instructions

For the following questions answer them individually

Question 1

Vineet, Rajesh and Kriti have different amounts of money with them. Rajesh has just double the amount of money than Vineet. The total amount of money that Rajesh and Kriti have is ₹147. Kriti has ₹6 more than the amount Vineet has. How much money does Kriti have ?

- A ₹64
- B ₹53
- C ₹50
- D ₹72

Answer: B

Explanation:

Amount of Rajesh = $2 \times$ amount of Vineet

Amount of Kriti = $6 +$ amount of Vineet ---(1)

Total amount of Rajesh and Kriti = 147

Amount of Rajesh + amount of Kriti = 147

$2 \times$ amount of Vineet + $6 +$ amount of Vineet = 147

Amount of Vineet = $141/3 = 47$

From eq (1),

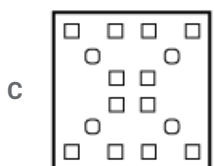
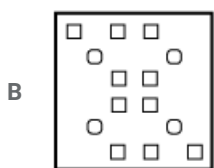
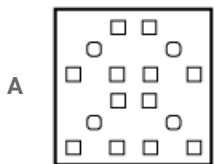
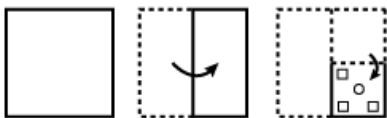
Amount of Kriti = $6 + 47 =$ Rs. 53

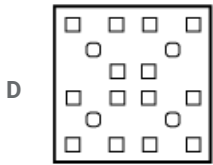
∴ The correct answer is option B.

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Question 2

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: C

Question 3

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

SAT, VEW, YIZ, ?, EUF

A BOC

B BUK

C FIC

D COD

Answer: A

Explanation:

In the series, middle letter of the letter-cluster is vowels so,

$$(S + 3)(A)(T + 3) = VEW$$

$$(V + 3)(E)(W + 3) = YIZ$$

$$(Y + 3)(I)(Z + 3) = BOC$$

$$(B + 3)(O)(C + 3) = EUF$$

∴ The correct answer is option A.

Question 4

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

(7, 98, 196)

A (15, 190, 380)

B (18, 185, 360)

C (11, 154, 308)

D (20, 267, 520)

Answer: C

Explanation:

In (7, 98, 196),

$$7 \times 14 = 98$$

$$98 \times 2 = 196$$

Similarly,

In (11, 154, 308),

$$11 \times 14 = 154$$

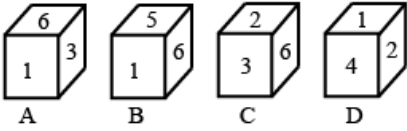
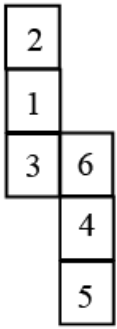
$$154 \times 2 = 308$$

∴ The correct answer is option C.

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Question 5

Select the dice that can be formed by folding the given sheet along the lines.



- A Only A and B
- B Only A
- C Only B
- D Only C and D

Answer: B

Question 6

Arrange the following words in the order in which they would appear in an English dictionary.

1. Category
2. Caption
3. Captain
4. Capsule
5. Capacity

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

Answer: B

Explanation:

Order of the words according to the English dictionary,
Capacity, Capsule, Captain, Caption, Category

∴ The correct answer is option B.

Question 7

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

21	18	32
19	22	?
299	296	348

- A 14
- B 24
- C 30
- D 28

Answer: A

Explanation:

$$\begin{aligned} \frac{299+100}{21} &= \frac{399}{21} = 19 \\ \frac{296+100}{18} &= \frac{396}{18} = 22 \end{aligned}$$

Similarly,

$$\frac{348+100}{32} = \frac{448}{32} = 14$$

∴ The correct answer is option A.

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Question 8

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 NRW
- B PTY
- C ADL
- D LPU

Answer: C

Explanation:

$$N + 4 = R + 5 = W$$

$$P + 4 = T + 5 = Y$$

$$A + 3 = D + 8 = L$$

$$L + 4 = P + 5 = U$$

∴ The correct answer is option C.

Question 9

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

- A Rabies
- B Schizophrenia
- C Polio

D Measles

Answer: B

Explanation:

Except option B, remaining all are the disease which is caused by virus.
∴ The correct answer is option B.

Question 10

Pointing to the photograph of Sanchi, Nitin said, "Her mother's father's son's wife is my mother-in-law's only daughter". How is Nitin related to Sanchi's mother ?

A Paternal uncle

B Paternal grandfather

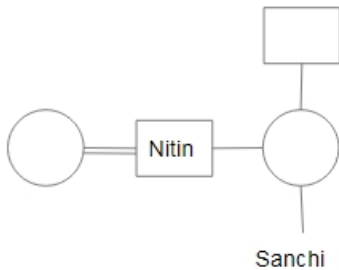
C Maternal uncle

D Brother

Answer: D

Explanation:

In the diagram, square shows the males, circle shows the females, vertical lines shows the generation, single horizontal lines shows the brother/sister and double horizontal lines shows the couples.



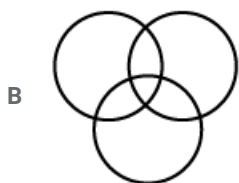
From the diagram,
Nitin is the brother of Sanchi's mother.

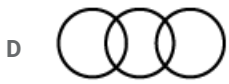
∴ The correct answer is option D.

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Question 11

Which of the following Venn diagram best represents the relationship between the following classes? Income tax payers, Employees, Males





Answer: B

Question 12

'Vertebrate' is related to 'Monkey' in the same way as 'Invertebrate' is related to '.....'

A Starfish

B Snake

C Deer

D «Frog

Answer: A

Explanation:

'Vertebrate' is related to 'Monkey' in the same way as 'Invertebrate' is related to 'starfish'.

∴ The correct answer is option A.

Question 13

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

4:69:: 11:2

A 1029

B 198

C 176

D 1336

Answer: D

Explanation:

$$(4)^3 + 3 = 64 + 3 = 67$$

$$(11)^3 + 3 = 1331 + 3 = 1334$$

∴ The correct answer is option D.

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Question 14

In a certain code language, 'CAUGHT' is coded as '326212087'. How will 'SOLDER' be coded as in that language?

A 2012152358

B 1912122359

C 1915124359

D 1812122459

Answer: B

Explanation:

'CAUGHT' is coded as '326212087',

C = 3

$$A = 27 - 1 = 26$$

$$U = 21$$

$$G = 27 - 7 = 20$$

$$H = 8$$

$$T = 27 - 20 = 7$$

Similarly,

$$S = 19$$

$$O = 27 - 15 = 12$$

$$L = 12$$

$$D = 27 - 4 = 23$$

$$E = 5$$

$$R = 27 - 18 = 9$$

'SOLDER' is coded as '1912122359'

∴ The correct answer is option B.

Question 15

Which two signs and two numbers should be interchanged to make the given equation correct?

$$11 \times 7 \div 35 - 64 + 56 = 47$$

A $+$ and $-$; 7 and 11

B \times and \div ; 35 and 11

C \times and \div ; 35 and 56

D $+$ and $-$; 35 and 11

Answer: B

Explanation:

$$11 \times 7 \div 35 - 64 + 56 = 47$$

From the option B,

on changing the sign,

$$35 \div 7 \times 11 - 64 + 56 = 47$$

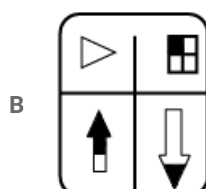
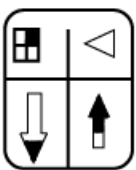
$$55 - 64 + 56 = 47$$

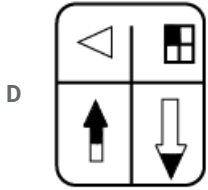
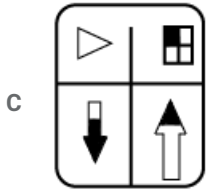
$$47 = 47$$

∴ The correct answer is option B.

Question 16

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





Answer: B

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Question 17

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

AR, CP, ?, GL, IJ, KH

A DM

B DN

C EN

D EM

Answer: C

Explanation:

$$(A + 2)(R - 2) = CP$$

$$(C + 2)(P - 2) = EN$$

$$(E + 2)(N - 2) = GL$$

$$(G + 2)(L - 2) = IJ$$

$$(I + 2)(J - 2) = KH$$

∴ The correct answer is option C.

Question 18

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

61, 63, 65, 77, 89, ?, 149, 205

A 115

B 123

C 119

D 132

Answer: C

Explanation:

$$61 + (1)^2 + 1 = 61 + 2 = 63$$

$$63 + (2)^2 - 2 = 63 + 2 = 65$$

$$65 + (3)^2 + 3 = 65 + 12 = 77$$

$$77 + (4)^2 - 4 = 77 + 12 = 89$$

$$89 + (5)^2 + 5 = 89 + 30 = 119$$

$$119 + (6)^2 - 6 = 119 + 30 = 149$$

$$149 + (7)^2 + 7 = 149 + 56 = 205$$

∴ The correct answer is option C.

Question 19

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

A 17:323

B 23: 575

C 19:475

D 11: 143

Answer: C

Explanation:

$$17 \times (17 + 2) = 17 \times 19 = 323$$

$$23 \times (23 + 2) = 23 \times 25 = 575$$

$$19 \times (19 + 2) = 19 \times 21 = 399$$

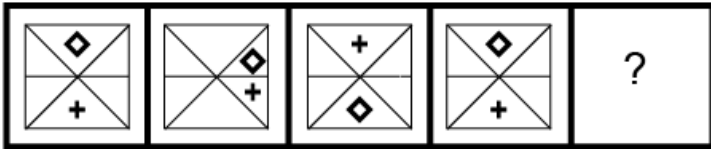
$$11 \times (11 + 2) = 11 \times 13 = 143$$

∴ The correct answer is option C.

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Question 20

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



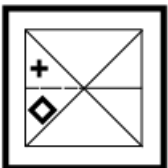
A



B



C



D



Answer: C

Question 21

In a certain code language, 'SANCTION' is written as 'XFSHODIT'. How will 'PROFOUND' be written as in that language ?

- A UWTKJPHJ
- B UWTKKPIJ
- C UWTKNQIY
- D VWUKMPIY

Answer: A

Explanation:

$S + 5 = X$

$A + 5 = F$

$N + 5 = S$

$C + 5 = H$

$T - 5 = O$

$I - 5 = D$

$O - 6 = I$

$N + 6 = T$

Similarly,

$P + 5 = U$

$R + 5 = W$

$O + 5 = T$

$F + 5 = K$

$O - 5 = J$

$U - 5 = P$

$N - 6 = H$

$D + 6 = J$

'PROFOUND' is written as 'UWTKJPHJ'.

∴ The correct answer is option A.

Question 22

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

Examination: Invigilator

- A Election : Observer
- B Bank : Loan
- C Film : Comedian
- D Inspection : Approval

Answer: A

Explanation:

Examinations are conducted by the invigilator.

Similarly,

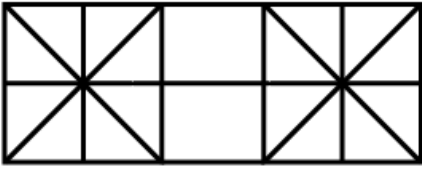
Elections are conducted by the observer.

∴ The correct answer is option A.

General Science Notes for SSC CGL

Question 23

How many triangles are there in the given figure?



A 34

B 33

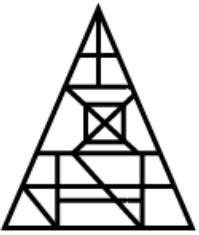
C 32

D 35

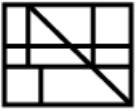
Answer: C

Question 24

Select the option that is embedded in the given figure X (rotation is not allowed).



A



B



C



D



Answer: C

Question 25

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 from the statements.

Statements:

1. Some papers are copies.
2. No copy is an eraser.

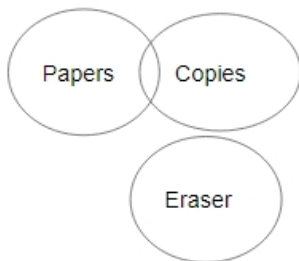
Conclusions:

- I. Some copies are papers.
- II. Some papers are erasers.
- III. No paper is an eraser.

- A Only conclusion II and either conclusion I or III follow.
- B Only conclusions I and II follow.
- C Only conclusion I and either conclusion II or III follow.
- D Only conclusions I and III follow.

Answer: C

Explanation:



From the Venn diagram,
Only conclusion I and either conclusion II or III follow
∴ The correct answer is option C.

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General Awareness

Instructions

For the following questions answer them individually

Question 26

The Indian Army is set to commission the first batch of women soldiers by year

- A 2020
- B 2022
- C 2021
- D 2023

Answer: C

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Question 27

Part VIII of the Constitution of India deals with _____.

- A States
- B Municipalities
- C Union Territories
- D Panchayats

Answer: C

Question 28

Which of the following is NOT located in Odisha?

- A Mayurbhanj Elephant Reserve
- B Sambalpur Elephant Reserve
- C Sonitpur Elephant Reserve
- D Mahanadi Elephant Reserve

Answer: C

Question 29

Which of the following is NOT an ore of iron?

- A Cuprite
- B Haematite
- C Magnetite
- D Siderite

Answer: A

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Question 30

The National Commission for Backward Classes (NCBC) was formed by insertion of Article _____ in the Constitution of India.

- A 328B
- B 328A
- C 338A
- D 338B

Answer: D

Question 31

Name the first female amputee to climb Mount Everest.

- A Premlata Agarwal
- B Arunima Sinha

C Poorna Malavath

D Anshu Jamsenpa

Answer: B

Question 32

Pernicious anaemia is caused by the deficiency of vitamin

A B2

B B6

C B1

D B12

Answer: D

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Question 33

India won its _____ successive title at the South Asian Football Federation Women's Championship in March 2019

A fourth

B sixth

C second

D fifth

Answer: D

Question 34

The excavated remains of _____ found near Patna in Bihar was inscribed as a World Heritage Site by UNESCO in July 2016.

A Ashoka Pillar

B Ellora Caves

C Sanchi Stupa

D Nalanda Mahavihara

Answer: D

Question 35

The headquarters of the Board of Control for Cricket in India (BCCI) are located in

A Bengaluru

B Mumbai

C Kolkata

D Delhi

Answer: B

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Question 36

Name the first Lieutenant Governor of the Union Territory of Jammu and Kashmir.

- A Arif Mohammad Khan
- B Bhagat Singh Koshyari
- C Satya Pal Malik
- D Girish Chandra Murmu

Answer: D

Question 37

_____ is also known as the 'Golden City'

- A Dungarpur
- B Jodhpur
- C Bundi
- D Jaisalmer

Answer: D

Question 38

The aggregate value of goods and services produced in an economy can be calculated by three methods: income method, expenditure method and _____ method.

- A product / value added
- B spending
- C deposit
- D lending

Answer: A

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Question 39

..... renounced his knighthood in protest for Jalianwalla Bagh mass killing

- A Jamssetjee Jejeebhoy
- B Rabindranath Tagore
- C Shivajirao Holkar
- D Surendranath Banerjee

Answer: B

Question 40

'Dharmaraja (Yudhishtir) Ratha', 'Bhima Ratha', 'Arjuna Ratha' and 'Nakula Sahadeva Ratha' are four of the Panch Rathas at Mahabalipuram. What is the name of the fifth Ratha?

- A Bhishma Ratha
- B Krishna Ratha
- C Karna Ratha
- D Draupadi Ratha

Answer: D

Question 41

The _____ in China is the world's longest man-made waterway

- A Suzhou Canal
- B Kiel Canal
- C Corinth Canal
- D Grand Canal

Answer: D

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Question 42

The Gadar (or Ghadar) Party was formed in the year

- A 1921
- B 1918
- C 1915
- D 1913

Answer: D

Question 43

Alai-Darwaza, the southern gateway of the Quwwat-ul-Islam mosque in Delhi, was constructed by

- A Mu'izz ad-Din Muhammad Ghori
- B Ahmad Shāh Durrani
- C Ala-ud-din Khilji
- D Muhammad bin Tughlu

Answer: C

Question 44

The Indus Waters Treaty was signed between India and Pakistan on

- A 19 September 1960
- B 12 November 1959
- C 16 December 1963
- D 18 October 1969

Answer: A

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Question 45

_____ are homogeneous mixtures of two or more components.

- A Amalgams
- B Solutions
- C Enzymes
- D Emulsions

Answer: B

Question 46

The total number of images formed by two mirrors inclined at 120° to each other is

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

Answer: C

Question 47

Depreciation is an annual allowance for the wear and tear of

- A work in progress
- B land
- C finished goods
- D capital goods

Answer: D

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Question 48

The Padma Awards are announced around _____ every year.

- A Republic Day
- B Sadbhavana Diwas
- C Independence Day
- D Hindi Diwas

Answer: A

Question 49

Which of the following can be used as a catalyst in Hydrogenation reaction?

- A Barium
- B Iron
- C Tungsten
- D Palladium

Answer: D

Question 50

The 'Hyderabad Fund' had been held by the _____ in the account of the High Commissioner of Pakistan to the UK, Habib Ibrahim Rahimtoola

- A Bank of England
- B National Westminster Bank
- C Butterfield Private Bank
- D Kingdom Bank

Answer: B

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Quantitative Aptitude

Instructions

For the following questions answer them individually

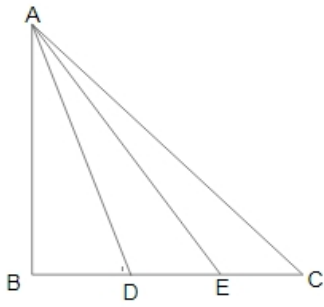
Question 51

In $\triangle ABC$, $\angle B = 90^\circ$, If the points D and E are on the side BC such that $BD = DE = EC$ then which of the following is true?

- A $5AE^2 = 2AC^2 + 3AD^2$
- B $8AE^2 = 5AC^2 + 3AD^2$
- C $8AE^2 = 3AC^2 + 5AD^2$
- D $5AE^2 = 3AC^2 + 2AD^2$

Answer: C

Explanation:



Let the BD, BE and BC be x , $2x$ and $3x$ respectively.

In $\triangle ABD$,

$$(AD)^2 = (AB)^2 + (BD)^2$$

$$(AD)^2 = (AB)^2 + (x)^2 \text{ ---(1)}$$

In $\triangle ABE$,

$$(AE)^2 = (AB)^2 + (BE)^2$$

$$(AE)^2 = (AB)^2 + (2x)^2$$

$$(AE)^2 = (AB)^2 + 4x^2 \text{ ---(2)}$$

In $\triangle ABC$,

$$(AC)^2 = (AB)^2 + (BC)^2$$

$$(AC)^2 = (AB)^2 + (3x)^2$$

$$(AC)^2 = (AB)^2 + 9x^2 \text{ ---(3)}$$

Eq(1) multiply by 4,

$$4AD^2 = 4AB^2 + 4x^2 \text{ ---(4)}$$

Eq(4) - (2),

$$4AD^2 - AE^2 = 3AB^2 \text{ ---(5)}$$

Eq(1) multiply by 9,

$$9AD^2 = 9AB^2 + 9x^2 \text{ ---(6)}$$

Eq(6) - (3),

$$9AD^2 - AC^2 = 8AB^2 \text{ ---(7)}$$

Eq(5) multiply by 8 and Eq(7) multiply by 3,

$$32AD^2 - 8AE^2 = 24AB^2 \text{ ---(8)}$$

$$27AD^2 - 3AC^2 = 24AB^2 \text{ ---(9)}$$

From eq(8) and (9),

$$32AD^2 - 8AE^2 = 27AD^2 - 3AC^2$$

$$8AE^2 = 5AD^2 + 3AC^2$$

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Question 52

When a positive integer is divided by d , the remainder is 15. When ten times of the same number is divided by d , the remainder is 6. The least possible value of d is:

A 9

B 16

C 18

D 12

Answer: B

Explanation:

When a positive integer is divided by d , the remainder is 15 and When ten times of the same number is divided by d . the remainder is 6.

So,

15 will be also ten times so,

Remainder = 150

By the option B)

When 150 is divided by 16 then remainder will be 6.

Hence, correct answer is option B) 16.

Question 53

Reema sold 48 articles for ₹ 2,160 and suffered a loss of 10%. How many articles should she sell for ₹2,016 to earn a profit of 12%?

A 36

B 40

C 28

D 32

Answer: A

Explanation:

Selling price of 48 articles when loss of 10% = 2160

Cost price of 48 articles = $\frac{2160}{90} \times 100 = 2400$

Cost price of 1 article = $2400/48 = 50$

Selling price of when profit of 12% = 2016

Cost price = $\frac{2016}{112} \times 100 = 1800$

Number of articles = $1800/50 = 36$

Question 54

A and B together borrowed a sum of ₹51,750 at an interest rate of 7%p.a. compound interest in such a way that to settle the loan, A paid as much amount after three years as paid by B after 4 years from the day of borrowing. The sum (in ₹) borrowed by B was:

A 25,650

B 26,750

C 25,000

D 24,860

Answer: C

Explanation:

let A borrow be Rs.x.

Borrowed by B = $51,750 - x$

compound interest rate(r) = 7%

Amount paid by A after 3 year = amount paid by B after 4 year

Amount = $principal(1 + r/100)^t$

$$x(1 + 7/100)^3 = (51,750 - x)(1 + 7/100)^4$$

$$x = (51,750 - x) \times 107/100$$

$$100x = 5537250 - 107x$$

$$x = 5537250/207 = 26750$$

$$\text{Borrowed by B} = 51,750 - x = 51,750 - 26750 = 25000$$

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Question 55

$$\frac{x^2(x-4)^2}{(x+4)^2-4x} \div \frac{(x^2-4x)^3}{(x+4)^2} \times \frac{64-x^3}{16-x^2} \text{ is equal to}$$

A $\frac{x-4}{x+4}$

B $\frac{x+4}{x(4-x)}$

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

D $\frac{x+4}{x-4}$

Answer: C

Explanation:

$$\frac{x^2(x-4)^2}{(x+4)^2-4x} \div \frac{(x^2-4x)^3}{(x+4)^2} \times \frac{64-x^3}{16-x^2}$$

$$= \frac{x^2(x-4)^2}{(x+4)^2-4x} \times \frac{(x+4)^2}{(x^2-4x)^3} \times \frac{64-x^3}{16-x^2}$$

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

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

$$= \frac{1}{4^2 + 8x + x^2 - 4x} \times \frac{(x+4)x(x-4)}{(x+4)x(x-4)} \times (4^2 + 4x + x^2)$$

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

$$= \frac{(x+4)x(x-4)}{(x+4)x(x-4)}$$

Question 56

The marked price of an item is 25% above its cost price. A shopkeeper sells it, allowing a discount of x % on the marked price. If he incurs a loss of 8%, then the value of x is

A 25.6%

B 26.8%

C 26.4%

D 25.2%

Answer: C

Explanation:

Let the cost price of an article be 100.

$$\text{Marked price} = 100 \times \frac{125}{100} = 125$$

$$\text{Discount} = x\%$$

$$\text{Loss} = 8\%$$

$$\text{Selling price} = 100 \times \frac{92}{100} = 92$$

$$\text{Selling price} = \text{marked price} - \text{discount}$$

$$\text{Discount} = 125 - 92 = 33$$

$$x\% = \frac{33}{125} \times 100 = 26.4\%$$

Question 57

What x is added to each of 10, 16, 22 and 32, the numbers so obtained in this order are in proportion? What is the mean proportional between the numbers $(x + 1)$ and $(3x + 1)$?

A 12

B 9

C 15

D 10

Answer: C

Explanation:

If x is added to each of numbers, the numbers so obtained in this order are in proportion

$$\text{so, } \frac{10 + x}{16 + x} = \frac{22 + x}{32 + x}$$

$$(10 + x)(32 + x) = (16 + x)(22 + x)$$

$$320 + 10x + 32x + x^2 = 352 + 16x + 22x + x^2$$

$$320 + 42x = 352 + 38x$$

$$4x = 32$$

$$x = 8$$

$$(x + 1) = 8 + 1 = 9$$

$$(3x + 1) = 24 + 1 = 25$$

$$\text{Mean proportional} = \sqrt{9 \times 25} = 15$$

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Question 58

What is the value of $\frac{\operatorname{cosec}(78^\circ + \theta) - \sec(12^\circ - \theta) - \tan(67^\circ + \theta) + \cot(23^\circ - \theta)}{\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ}$?

A 1

B 0

C 2

D -1

Answer: B

Explanation:

$$\frac{\operatorname{cosec}(78^\circ + \theta) - \sec(12^\circ - \theta) - \tan(67^\circ + \theta) + \cot(23^\circ - \theta)}{\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ}$$

$$\frac{\operatorname{cosec}(90^\circ - (12^\circ - \theta)) - \sec(12^\circ - \theta) - \tan(90^\circ - (23^\circ - \theta)) + \cot(23^\circ - \theta)}{\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ} = 0$$

$$\frac{\sec(12^\circ - \theta) - \sec(12^\circ - \theta) - \cot(23^\circ - \theta) + \cot(23^\circ - \theta)}{\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ} = 0$$

$$\frac{0}{\tan 13^\circ \tan 37^\circ \tan 45^\circ \tan 53^\circ \tan 77^\circ} = 0$$

Question 59

The average of some numbers is 54.6. If 75% of the numbers are increased by 5.6 each, and the rest are decreased by 8.4 each, then what is the average of the numbers so obtained?

- A 55.6
- B 55.8
- C 56.7
- D 56.3

Answer: C

Explanation:

New average of the numbers = (average + increment/decrements)

The average of some numbers = 54.6

75% of the numbers are increased by 5.6 each, and the rest are decreased by 8.4 each so,

New average of the numbers = $54.6 + (5.6 \times 75/100 - 8.4 \times 25/100) = 54.6 + 4.2 - 2.1 = 56.7$

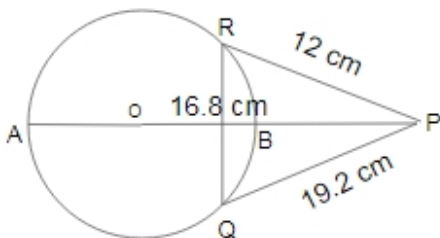
Question 60

Diameter AB of a circle with centre O is produced to a point P such that PO = 16.8 cm. PQR is a secant which intersects the circle at Q and R such that PQ = 12 cm and PR = 19.2 cm. The length of AB (in cm) is :

- A 14.2
- B 15.2
- C 15.8
- D 14.4

Answer: D

Explanation:



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Question 61

A boat can go 3.6 km upstream and 5.4 km downstream in 54 minutes, while it can go 5.4 km upstream and 3.6 km downstream in 58.5 minutes. The time (in minutes) taken by the boat in going 10 km downstream is:

- A 48
- B 50
- C 45
- D 54

Answer: B

Explanation:

Let the speed of stream be u and speed of boat in still water be v .

Speed of boat in upstream = $u - v$

Speed of boat in downstream = $u + v$

A boat can go 3.6 km upstream and 5.4 km downstream in 54 minutes so,

Time = distance/speed

$$\frac{3.6}{u - v} + \frac{5.4}{u + v} = \frac{54}{60}$$

$$\frac{3.6}{u - v} + \frac{5.4}{u + v} = \frac{9}{10}$$

$$\frac{36}{u - v} + \frac{54}{u + v} = 9$$

$$4(u + v) + 6(u - v) = u^2 - v^2$$

$$10u - 2v = u^2 - v^2 \quad \text{---(1)}$$

Boat can go 5.4 km upstream and 3.6 km downstream in 58.5 minutes so,

$$\frac{5.4}{u - v} + \frac{3.6}{u + v} = \frac{58.5}{60}$$

$$\frac{54}{u - v} + \frac{36}{u + v} = \frac{585}{60}$$

$$\frac{6}{u - v} + \frac{4}{u + v} = \frac{13}{12}$$

$$72(u + v) + 48(u - v) = 13(u^2 - v^2)$$

$$120u + 24v = 13(u^2 - v^2)$$

Put the value of eq(1),

$$120u + 24v = 13(10u - 2v)$$

$$120u + 24v = 130u - 26v$$

$$10u = 50v$$

$$u = 5v \quad \text{---(2)}$$

put the value of u in eq(1),

$$50v - 2v = 25v^2 - v^2$$

$$48v = 24v^2$$

$$v = 2$$

put the value of v in eq(2),

$$u = 5 \times 2 = 10$$

$$\text{Speed of boat in downstream} = u + v = 10 + 2 = 12$$

The time taken by the boat in going 10 km downstream = distance/speed = $10/12$ hours = $60 \times 10/12 = 50$ min

Question 62

If $\cos \theta - 12 \sin \theta = 0$, then what is the value of $\frac{1 + \sin \theta + \cos \theta}{1 - \sin \theta + \cos \theta}$

- A $\frac{5}{4}$
- B $\frac{3}{2}$

C $\frac{3}{4}$

D $\frac{5}{2}$

Answer: B

Explanation:

$$5 \cos \theta - 12 \sin \theta = 0$$

$$\tan \theta = \frac{5}{12}$$

We know that $\tan \theta = \frac{\text{perpendicular}}{\text{base}}$ so,

By the triplet 5-12-13,

Hypotenuse = 13

$$\sin \theta = \frac{5}{13}$$

$$\cos \theta = \frac{12}{13}$$

$$\frac{1 + \sin \theta + \cos \theta}{1 - \sin \theta + \cos \theta}$$

$$= \frac{1 + \frac{5}{13} + \frac{12}{13}}{1 - \frac{5}{13} + \frac{12}{13}}$$

$$= \frac{30}{20} = \frac{3}{2}$$

Question 63

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company →	A	B	C	D
Year ↓				
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

The total number of cars sold by companies A in 2017 and C in 2013 is what percentage of the total number of cars sold by all four companies in 2013 and 2016? (correct to one decimal place)

A 23.8

B 24.2

C 25.6

D 23.3

Answer: D

Explanation:

The total number of cars sold by companies A in 2017 and C in 2013 = $52 + 65 = 117$

The total number of cars sold by all four companies in 2013 = $45 + 63 + 65 + 67 = 240$

The total number of cars sold by all four companies in 2016 = $72 + 58 + 70 + 63 = 263$

The total number of cars sold by all four companies in 2013 and 2016 = $240 + 263 = 503$

Required percentage = $\frac{117}{503} \times 100 = 23.26\% \sim 23.3\%$

Question 64

If $\sin^2 \theta - \cos^2 \theta + 4 \sin \theta - 4 = 0$, $0^\circ < \theta < 90^\circ$, then what is the value of $\frac{\cos 2\theta + \cot^2 \theta}{\sec^2 \theta - \tan^2 \theta}$

- A $\frac{12+7\sqrt{3}}{6}$
- B $\frac{12+5\sqrt{3}}{3}$
- C $\frac{10+5\sqrt{3}}{3}$
- D $\frac{10+7\sqrt{3}}{6}$

Answer: A

Explanation:

$$\sin^2 \theta - \cos^2 \theta + 4 \sin \theta - 4 = 0$$

$$\sin^2 \theta - (1 - \sin^2 \theta) + 4 \sin \theta - 4 = 0$$

$$2 \sin^2 \theta + 4 \sin \theta - 5 = 0$$

$$2 \sin^2 \theta + 10 \sin \theta - 6 \sin \theta - 5 = 0$$

$$2 \sin \theta (6 \sin \theta + 5) - 1(6 \sin \theta + 5) = 0$$

$$(2 \sin \theta - 1)(6 \sin \theta + 5) = 0$$

For $0^\circ < \theta < 90^\circ$,

$$\sin \theta = \frac{1}{2}$$

$$\theta = 30^\circ$$

$$\frac{\cos 2\theta + \cot^2 \theta}{\sec^2 \theta - \tan^2 \theta}$$

On putting the value of θ ,

$$\frac{\cos 2 \times 30 + \cot^2 30}{\sec^2 30 - \tan^2 30}$$

$$\frac{\cos 60 + \cot^2 60}{\sec^2 60 - \tan^2 60}$$

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

$$\frac{2 + \sqrt{3}}{2\sqrt{3}(2 - \sqrt{3})}$$

$$\frac{2 + \sqrt{3}}{4\sqrt{3} - 6}$$

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

$$\frac{(2 + \sqrt{3})(4\sqrt{3} + 6)}{(4\sqrt{3})^2 - 6^2}$$

$$\frac{8\sqrt{3} + 12 + 12 + 6\sqrt{3}}{12}$$

$$\frac{12 + 7\sqrt{3}}{6}$$

Question 65

If the radius of a right circular cylinder is decreased by 10%, and the height is increased by 20%, then the percentage increase/decrease in its volume is:

- A increase by 2.8%
- B decrease by 1.8%
- C increase by 1.8%
- D decrease quadrilateral by in 2.8%

Answer: D

Explanation:

$$\text{Volume of right circular cylinder} = \pi r^2 h$$

Radius of a right circular cylinder is decreased by 10%, and the height is increased by 20% so,

$$r_1 = r \times \frac{90}{100} = 0.9r$$

$$h_1 = h \times \frac{120}{100} = 1.2h$$

$$\text{Volume of new right circular cylinder} = \pi r_1^2 h_1 = \pi (0.9r)^2 (1.2h) = 0.972(\pi r^2 h)$$

$$\text{Decrements in volume} = \pi r^2 h - 0.972(\pi r^2 h) = 0.028(\pi r^2 h)$$

$$\text{Percentage Decrements in volume} = \frac{0.028(\pi r^2 h)}{(\pi r^2 h)} \times 100 = 2.8\%$$

Question 66

ABCD is a cyclic quadrilateral which sides AD and BC are produced to meet at P, and sides DC and AB meet at Q when produced. If $\angle A = 60^\circ$ and $\angle ABC = 72^\circ$, then $\angle PDC - \angle DPC =$

A 24°

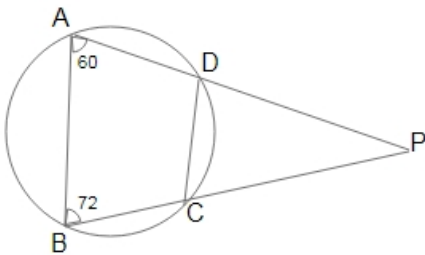
B 30°

C 36°

D 40°

Answer: A

Explanation:



In $\triangle ABP$,

$$\angle A + \angle ABC + \angle APB = 180^\circ$$

$$\angle APB = 180 - 60 - 72 = 48^\circ$$

$$\angle ADC = 180 - \angle ABC = 180 - 72 = 108^\circ$$

$$\angle PDC = 180 - \angle ADC = 180 - 108 = 72^\circ$$

$$\angle PDC - \angle DPC = 72 - 48 = 24^\circ$$

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Question 67

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company →	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

The Total number of cars sold by company C in 2018 exceeds the average number of cars sold by company A during 2014 to 2018 by:

- A 15,000
- B 14,000
- C 16,000
- D 12,000

Answer: C

Explanation:

Total number of cars sold by company C in 2018 = 76000

Total number of cars sold by company A during 2014 to 2018 = 52000 + 61000 + 72000 + 52000 + 63000 = 300000

Average number of cars sold by company A during 2014 to 2018 = $300000/5 = 60000$

Required number = 76000 - 60000 = 16000

Question 68

A and B spend 60% and 75% of their incomes, respectively. If the savings of A are 20% more than that of B. then by what percentage is the income of A less than the income of B?

- A 15
- B 20
- C 10
- D 25

Answer: D

Explanation:

Let the income of A and B be X and Y respectively.

Saving of A = $X - \frac{60}{100} \times X = 0.4X$

Saving of B = $Y - \frac{75}{100} \times Y = 0.25Y$

If the savings of A are 20% more than that of B then,

Saving of A = $0.25Y \times \frac{120}{100} = 3Y/10$

$$0.4X = 3Y/10$$

$$4X = 3Y$$

Ratio of income of A and B = 3 : 4

Required percentage = $\frac{(4 - 3)}{4} \times 100 = 25\%$

Question 69

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company → Year ↓	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

The total number of cars sold by company B during 2015, 2017 and 2018 is what percentage less than the total number of cars sold by company C in 2013, 2015, 2017 and 2018?

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

B $33\frac{1}{3}\%$

C 50

D 40

Answer: B

Explanation:

The total number of cars sold by company B during 2015, 2017 and 2018 = $60 + 53 + 67 = 180$

The total number of cars sold by company C in 2013, 2015, 2017 and 2018 = $65 + 66 + 63 + 76 = 270$

Required percentage = $\frac{(270 - 180)}{270} \times 100 = 33\frac{1}{3}\%$

General Science Notes for SSC CGL

Question 70

To complete a certain task, X is 40% more efficient than Y, and Z is 40% less efficient than Y. Working together, they can complete the task in 21 days. Y and Z together worked for 35 days. The remaining work will be completed by X alone in:

A 8 days

B 4 days

C 6 days

D 5 days

Answer: D

Explanation:

Efficiency of X = 140% of Y = $1.4Y$

Efficiency of Z = 60% of Y = $0.6Y$

Efficiency of X, Y and Z = $1.4 : 1 : 0.6 = 7 : 5 : 3$

They can complete the task in 21 days so,

Total work = sum of efficiency ratio \times time = $(7 + 5 + 3) \times 21 = 315$

Y and Z together worked for 35 days so,

Work done by Y and Z = $(5 + 3) \times 35 = 280$

Remaining work = 315 - 280 = 35

Remaining work complete by X = work/efficiency = 35/7 = 5 days

Question 71

The given table represents the sale (in thousands) of cars by four companies A, B, C and D in six years. Study the table and answer the question that follows.

Company → Year ↓	A	B	C	D
2013	45	63	65	67
2014	52	49	60	69
2015	61	60	66	67
2016	72	58	70	63
2017	52	53	63	75
2018	63	67	76	74

What is the ratio of the total number of cars sold by companies A, B and D in 2017 to the total number of cars sold by all four companies in 2018?

- A 3:4
- B 6:13
- C 9:14
- D 18:23

Answer: C

Explanation:

The total number of cars sold by companies A, B and D in 2017 = 52 + 53 + 75 = 180

The total number of cars sold by all four companies in 2018 = 63 + 67 + 76 + 74 = 280

The ratio of the total number of cars sold by companies A, B and D in 2017 to the total number of cars sold by all four companies in 2018 = 180 : 280 = 9 : 14

Question 72

The value of $\frac{3}{5} \times 1 \frac{7}{8} \div 1 \frac{1}{3}$ of $\frac{3}{16} - \left(3 \frac{1}{5} \div 4 \frac{1}{2} \right)$ of $5 \frac{1}{3}$ right $\times 2 \frac{1}{2} + \frac{1}{2} + \frac{1}{8} \div \frac{1}{4}$ is:

- A $4 \frac{1}{3}$
- B $5 \frac{5}{6}$
- C $4 \frac{5}{12}$
- D $5 \frac{5}{12}$

Answer: C

Explanation:

$\frac{3}{5} \times 1 \frac{7}{8} \div 1 \frac{1}{3}$ of $\frac{3}{16} - \left(3 \frac{1}{5} \div 4 \frac{1}{2} \right)$ of $5 \frac{1}{3}$ right $\times 2 \frac{1}{2} + \frac{1}{2} + \frac{1}{8} \div \frac{1}{4}$

By BODMAS rule,

$\frac{3}{5} \times \frac{15}{8} \div \frac{4}{3}$ of $\frac{3}{16} - \left(\frac{16}{5} \div \frac{9}{2} \right)$ of $\frac{16}{3}$ right $\times \frac{5}{2} + \frac{1}{2} + \frac{1}{8} \div \frac{1}{4}$

$\frac{3}{5} \times \frac{15}{8} \div \frac{1}{4} - \left(\frac{16}{5} \div 24 \right) \times \frac{5}{2} + \frac{1}{2} + \frac{1}{8} \times \frac{4}{1}$

$\frac{3}{5} \times \frac{15}{8} \times 4 - \left(\frac{16}{5} \times \frac{1}{24} \right) \times \frac{5}{2} + \frac{1}{2} + \frac{1}{2}$

$$\frac{3}{5} \times \frac{15}{2} - \frac{2}{15} \times \frac{5}{2} + \frac{1}{2} + \frac{1}{2}$$

$$\frac{9}{2} - \frac{1}{3} + \frac{1}{4} = \frac{53}{12} = 4\frac{5}{12}$$

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Question 73

In $\triangle PQR$, $PQ = 24$ cm and $\angle Q = 58^\circ$. S and T are the points on side PQ and PR, respectively, such that $\angle STR = 122^\circ$ and if $PS = 14$ cm and $PT = 12$ cm, then the length of RT is :

A 14.8 cm

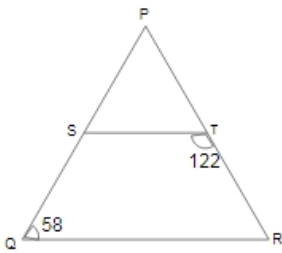
B 16 cm

C 15 cm

D 16.4 cm

Answer: B

Explanation:



$$\angle PTS + \angle STR = 180^\circ$$

$$\angle PTS = 180 - 122 = 58^\circ$$

$\angle P$ is a common angle.

$\triangle PQR$ and $\triangle PTS$ are similar triangles. So,

$$\frac{PT}{PQ} = \frac{PS}{PR}$$

$$\frac{12}{24} = \frac{14}{PR}$$

$$PR = 28 \text{ cm}$$

$$RT = PR - PT = 28 - 12 = 16 \text{ cm}$$

Question 74

If $x^4 + x^2y^2 + y^4 = 273$ and $x^2 - xy + y^2 = 13$, then the value of xy is :

A 4

B 10

C 6

D 8

Answer: A

Explanation:

$$x^2 - xy + y^2 = 13 \quad \text{---(1)}$$

$$\Rightarrow x^4 + x^2 y^2 + y^4 = 273$$

$$\Rightarrow (x^2 + xy + y^2)(x^2 - xy + y^2) = 273 \quad \text{---(2)}$$

put the value of eq(1) in eq(2)-

$$(x^2 + xy + y^2)(13) = 273$$

$$\Rightarrow (x^2 + xy + y^2) = 21$$

$$\Rightarrow (x^2 + xy + y^2 + xy - xy) = 21$$

$$\Rightarrow (x^2 - xy + y^2 + 2xy) = 21$$

put the value from eq(1)

$$13 + 2xy = 21$$

$$\Rightarrow 2xy = 8$$

$$\Rightarrow xy = 4$$

\therefore The value of xy is 4.

Question 75

If $20x^2 - 30x + 1 = 0$, then what is the value of $25x^2 + \frac{1}{16x^2}$?

A $58\frac{3}{4}$

B $53\frac{3}{4}$

C $53\frac{1}{2}$

D $58\frac{1}{2}$

Answer: B

Explanation:

$$20x^2 - 30x + 1 = 0$$

Dividing by x

$$20x - 30 + \frac{1}{x} = 0$$

$$20x + \frac{1}{x} = 30$$

$$5x + \frac{1}{4x} = \frac{15}{2}$$

$$25x^2 + \frac{1}{16x^2}$$

$$= 25x^2 + \frac{1}{16x^2} + 2 \times 5x \times \frac{1}{4x} - 2 \times 5x \times \frac{1}{4x}$$

$$= 25x^2 + \frac{1}{16x^2} + \frac{5}{2} - \frac{5}{2}$$

$$= (5x + \frac{1}{4x})^2 - \frac{5}{2}$$

$$= (\frac{15}{2})^2 - \frac{5}{2}$$

$$= \frac{225}{4} - \frac{5}{2}$$

$$= \frac{215}{4} = 53\frac{3}{4}$$

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English Comprehension

Instructions

For the following questions answer them individually

Question 76

Select the correctly spelt word.

A Beaureacracy

- B Recruitment
- C Reimbursement
- D Surveillance

Answer: C

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Question 77

Select the appropriate meaning of the given idiom.
To take the bull by the horns

- A To speak arrogantly
- B To murder someone
- C To surrender to the enemy
- D To handle difficulties

Answer: D

Question 78

Given below are four jumbled sentences. Select the option that gives their correct order.

- A. Although I had a fear of water, I thought it was an important skill I should learn.
- B. However, what I didn't realize was that it would also make me a more confident person.
- C. I also thought it would be a good exercise that would make me physically stronger.
- D. One of the hardest things I've had to do was to learn how to swim.

- A DCBA
- B ACDB
- C DACB
- D BADC

Answer: C

Question 79

Select the correctly spelt word

- A Definition
- B Competiter
- C Proliferete
- D Beneficiary

Answer: A

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Question 80

Select the correct synonym of the given word.

Erudite

- A Learned
- B Strong
- C Fashionable
- D Illiterate

Answer: A

Question 81

Select the passive form of the given sentence.

They are constructing a residential youth hostel.

- A A residential youth hostel is constructed by them
- B A residential youth hostel was constructed by them.
- C A residential youth hostel has been constructed by them
- D A residential youth hostel is being constructed by them

Answer: D

Instructions

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

Comprehension:

Drug addiction is the continued use of a particular drug (1)_____ harmful consequences. Drug addiction not only affects an individual's health and relationship, but also (2)_____ the society and the environment. Prevention of a particular list of drugs can be possible by (3)_____ their sale without a prescription. Drug addicts should be given proper medical treatment and (4)_____ facilities. Motivational and awareness camps should be organized to scale down the consumption (5)_____ drugs.

Question 82

Select the most appropriate option for blank No. 1

- A despite of
- B though
- C in spite
- D despite

Answer: D

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Question 83

Select the most appropriate option for blank No. 2

- A .imparts

- B impacts
- C reflects
- D reduces

Answer: B

Question 84

Select the most appropriate option for blank No. 3

- A conducting
- B restricting
- C performing
- D promoting

Answer: B

Question 85

Select the most appropriate option for blank No. 4

- A regeneration
- B resignation
- C rehabilitation
- D regression

Answer: C

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Question 86

Select the most appropriate option for blank No. 5

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

Answer: B

Instructions

For the following questions answer them individually

Question 87

Select the correct antonym of the given word.

Allure

- A Revive
- B Rewind

C Repulse

D Attract

Answer: C

Question 88

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

A long and aggressive speech

A Harangue

B Eloquence

C Prologue

D Discussion

Answer: A

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Question 89

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

The school or college in which one has been educated

A Alma mater

B Alumni

C Graduate

D Mentor

Answer: A

Question 90

Given below are four jumbled sentences. Select the option that gives their correct order.

A. During the celebration, many people display a set of ornamental dolls known as 'Hina' dolls.

B. Hinamatsuri is a celebration of the girls in Japan wishing them a bright future.

C. These royal-looking dolls are dressed in the clothing of the Heian period.

D. These dolls represent the Emperor, Empress and other royal representatives.

A CDBA

B ACBD

C DBAC

D BADC

Answer: D

Question 91

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

The old man did not wanted to eat any food.

- A to eat
- B did not wanted
- C any food
- D The old man

Answer: B

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Question 92

Select the most appropriate word to fill in the blank.

All students should express their _____ views in the group discussion without any fear

- A outspoken
- B guarded
- C candid
- D secluded

Answer: C

Question 93

Select the most appropriate word to fill in the blank.

All his endeavors to win his teacher's favour proved _____ and did not bring the desired results.

- A perpetual
- B futile
- C apparent
- D prosperous

Answer: B

Question 94

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

No least than fifty participants were present for the singing competition.

- A No least than
- B the singing competition
- C fifty participants wer
- D present for

Answer: A

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Question 95

Select the correct antonym of the given word.

Bizarre

- A Strange
- B Usual
- C Happy
- D Weird

Answer: B

Question 96

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

Many of a students were not shortlisted for the personal interview

- A No improvement
- B Many of students
- C The many student
- D Many of the students

Answer: D

Question 97

Select the appropriate meaning of the given idiom.

To flog a dead horse

- A To waste the efforts
- B To accept the challenge
- C To complete the work
- D To make the best use of resources

Answer: A

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Question 98

Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select No improvement.

When I was working in a software company, it was mandatory to register my legally as an authorized software developer.

- A register me legal
- B register myself legally
- C register mine legally
- D No improvement

Answer: B

Question 99

Select the correct indirect form of the given sentence.
"Hello", he said to his friend. "What can I do for you?"

- A He said hello and asked his friend what can do for him
- B He asked and greeted his friend that what he can do for him
- C He greeted his friend and asked what he could do for him
- D He told hello and asked his friend what he could do for him

Answer: C

Question 100

Select the correct synonym of the given word.
Violent

- A Kind
- B Mild
- C Calm
- D Aggressive

Answer: D

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