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Reasoning

Instructions

For the following questions answer them individually

Question 1

In a certain code, DIG is written as 60. How will FEED be written in that code?

- A 90
- B 80
- C 20
- D 50

Answer: B

Explanation:

The sum of the numbers represented by each alphabet, as A=1, B=2, C=3 and so on, is multiplied by the number of letters in the word.

Eg :- DIG $\equiv (4 + 9 + 7) \times 3 = 60$

Similarly, FEED $\equiv (6 + 5 + 5 + 4) \times 4 = 80$

=> Ans - (B)

Question 2

Eight friends A, B, C, D, E, F, G and H are sitting around circular table facing each other for a lunch. A is opposite F and third to the right of B. G is between F and D. H is to the left of D. E is between C and A. Who is sitting third to the right of H?

- A D
- B A
- C B
- D F

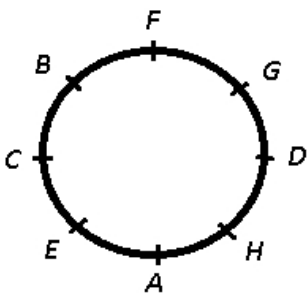
Answer: D

Explanation:

A is opposite F and third to the right of B, => B is sitting to the immediate right of F.

G is between F and D, and H is to the left of D, => H sits opposite B and D to the immediate right of H.

E is between C and A, => C sits to the immediate right of B.

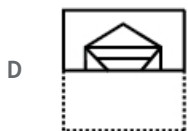
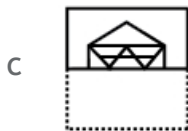
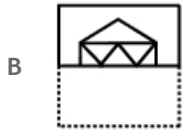
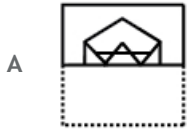
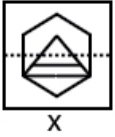


=> F is sitting third to the right of H.

=> Ans - (D)

Question 3

A square transparent sheet with a pattern is given. How will the pattern appear when the transparent sheet is folded along the dotted line?



Answer: C

Question 4

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

- 1.) All pens are frogs.
- 2.) All crows are frogs.

Conclusions:

- I. No pen is a crow.
- II. Some pens are crows.

A Only conclusion II follows.

B Both conclusions follow.

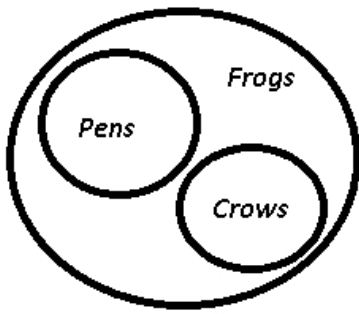
C Only conclusion I follows.

D Either conclusion I or conclusion II follows.

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusions:

- I. No pen is a crow = may or may not be true.
- II. Some pens are crows = may or may not be true.

Thus, either conclusion I or II follows.

=> Ans - (D)

Question 5

Select the option that is related to the third term in the same way as the second term is related to the first term.
BFH : HBF :: GKM : ?

- A KMG
- B MKI
- C MGK
- D IKM

Answer: C

Explanation:

Expression = BFH : HBF :: GKM : ?

The pattern followed is that last letter of the first term is appended at the beginning, rest is same.

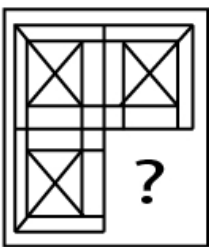
Eg :- BF-H ≡ H-BF = HBF

Similarly, GKM : MGK

=> Ans - (C)

Question 6

Select a figure from amongst the four alternatives that when placed in the blank space (?) of figure X will complete the pattern.
(Rotation is not allowed).



X

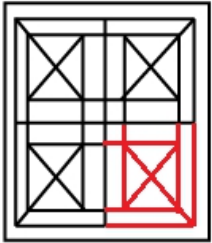




Answer: B

Explanation:

If we complete the above figure, then the missing pattern is represented by the red colour.



=> Ans - (B)

Question 7

Choose the odd number out of the given options.

A 216

B 65

C 8

D 125

Answer: B

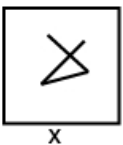
Explanation:

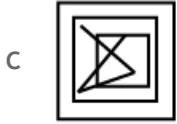
Apart from 65, all are perfect cubes, hence it is the odd one.

=> Ans - (B)

Question 8

Choose the option in which the figure marked 'x' is embedded. (Rotation is not allowed)





Answer: C

Explanation:

The question figure is embedded in following figure and is represented by red colour.



=> Ans - (C)

Question 9

Seven friends O, P, Q, R, S, T and U are watching a movie sitting in a row. S is sitting at one extreme end. O is sitting second to the right of S. P is sitting between O and Q. U is NOT sitting at any extreme end. R is sitting to the immediate left of T. Who is sitting fourth to the right of U?

A R

B Q

C T

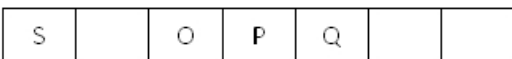
D P

Answer: A

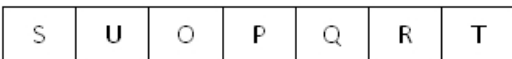
Explanation:

S is sitting at one extreme end. O is sitting second to the right of S, => S is sitting at extreme left end.

P is sitting between O and Q, => P is sitting to the immediate right of O.



U is NOT sitting at any extreme end. R is sitting to the immediate left of T, => U is sitting at second position from left end.



=> R is sitting fourth to the right of U.

=> Ans - (A)

Question 10

Choose the option that most closely resembles the mirror image of the given word when mirror is placed at right side.

MORTIFY

A YFITROM

B YFIIROM

C YFIIRROM

D YFITROM

Answer: D

Explanation:

When the mirror is placed at right side, the alphabets will not turn upside down, they will just be reversed, hence the only possible mirror image is :

YFITROM

=> Ans - (D)

Question 11

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

Dispur : Assam :: Kohima : ?

A Capital

B Sikkim

C Meghalaya

D Nagaland

Answer: D

Explanation:

First is the capital of second, Assam's capital is Dispur, similarly Kohima is the capital of **Nagaland**.

=> Ans - (D)

Question 12

Select the option that will correctly replace the question mark (?) in the series.

6, 21, 51, 96, ?

A 156

B 176

C 136

D 116

Answer: A

Explanation:

Consecutive multiples of 15 are added.

$$6 + 15 = 21$$

$$21 + 30 = 51$$

$$51 + 45 = 96$$

$$96 + 60 = 156$$

=> Ans - (A)

Question 13

Choose the odd one out of the given options.

A LNM

B RNK

C JKV

D HLW

Answer: A

Explanation:

Only in the first option, there are consecutive letters as they appear in English alphabetical order, hence it is the odd one.

=> Ans - (A)

Question 14

Find out the two signs to be interchanged to make the following equation correct.

$$27 + 48 \times 2 - 7 \div 3 = 30$$

A \times and \div

B $+$ and $-$

C $-$ and \div

D $-$ and \times

Answer: A

Explanation:

$$\text{Expression : } 27 + 48 \times 2 - 7 \div 3 = 30$$

(A) : \times and \div

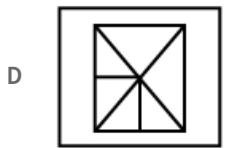
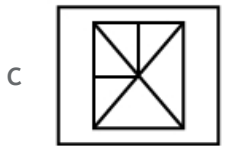
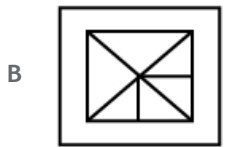
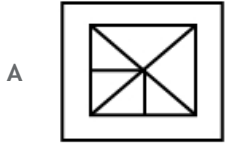
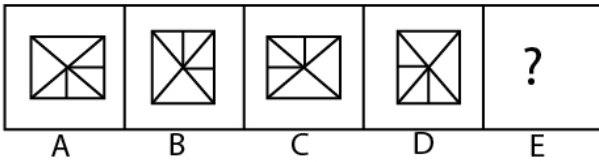
$$\text{L.H.S} \equiv 27 + 48 \div 2 - 7 \times 3$$

$$= 27 + 24 - 21 = 30 = \text{R.H.S.}$$

=> Ans - (A)

Question 15

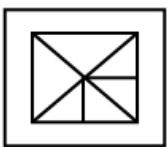
Choose the option that would follow next in the given figure series.



Answer: B

Explanation:

The pattern followed is that in the first figure, the small square is at the bottom right corner and it is moving in anti clockwise direction after each figure, thus after the fourth figure, the first figure will be repeated again, thus missing figure :



=> Ans - (B)

Question 16

Select the option that will correctly replace the question mark (?) in the series.
TOD, RQB, PSZ, NUX, ?

A LWU

B LVW

C LWW

D LWV

Answer: D

Explanation:

Expression : TOD, RQB, PSZ, NUX, ?

The pattern followed in each letter of the terms is :

1st letter : T (-2) = R (-2) = P (-2) = N (-2) = L

2nd letter : O (+2) = Q (+2) = S (+2) = U (+2) = W

3rd letter : D (-2) = B (-2) = Z (-2) = X (-2) = V

Thus, missing term = **LWV**

=> Ans - (D)

Question 17

Select the option that is related to the third number in the same way as the second number is related to the first number.
45 : 315 :: 37 : ?

A 144

B 259

C 169

D 221

Answer: B

Explanation:

Expression = 45 : 315 :: 37 : ?

The pattern followed is = $x : 7x$

Eg :- $45 \times 7 = 315$

Similarly, $37 \times 7 = 259$

=> Ans - (B)

Question 18

In a certain code, STEERING is written as TEIGTEIG. How will QUESTION be written in that code?

A USINVSIN

B USJNUSIN

C USINUSIN

D USINUSJN

Answer: C

Explanation:

STEERING is written as TEIGTEIG

The pattern followed is that the letters at even positions (starting from left) are taken and are written twice.

Eg : S(T)E(E)R(I)N(G) \equiv TEIG + TEIG = TEIGTEIG

Similarly, for QUESTION : **USINUSIN**

=> Ans - (C)

Question 19

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

- 1.) Some owls are horses.
- 2.) Some horses are hares.

Conclusions:

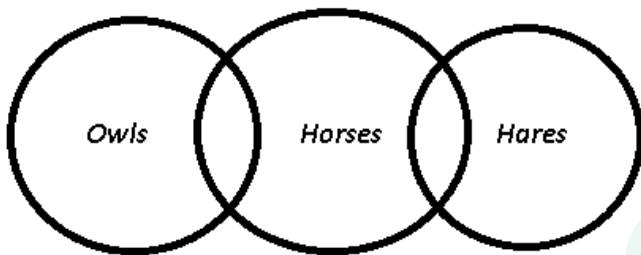
- I. Some owls are hares.
- II. Some hares are owls.

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

Answer: D

Explanation:

The venn diagram for above statements is :



Conclusions:

- I. Some owls are hares = false
- II. Some hares are owls = false

Thus, neither conclusion I nor II follows.

=> Ans - (D)

Question 20

Choose the odd one out of the given options.

- A Ghana
- B Cuba
- C Egypt
- D Berlin

Answer: D

Explanation:

Ghana, Cuba and Egypt are countries, while Berlin is the capital of Germany, hence it is the odd one

.=> Ans - (D)

Question 21

Select the option that will correctly replace the question mark (?) in the series.

5, 6, 14, 45, ?

- A 135
- B 184
- C 195
- D 180

Answer: B

Explanation:

The pattern followed is :

$$5 \times 1 + 1 = 6$$

$$6 \times 2 + 2 = 14$$

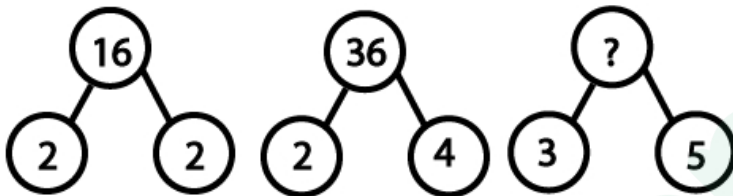
$$14 \times 3 + 3 = 45$$

$$45 \times 4 + 4 = 184$$

=> Ans - (B)

Question 22

Select the option that will correctly replace the question mark (?) in the given pattern.



- A 34
- B 15
- C 64
- D 8

Answer: C

Explanation:

The pattern followed is :

$$(2 + 2)^2 = (4)^2 = 16$$

$$(2 + 4)^2 = (6)^2 = 36$$

$$(3 + 5)^2 = (8)^2 = 64$$

=> Ans - (C)

Question 23

J, K, L, M, N and O are six teachers. Each one teaches a different subject out of Hindi, English, Math, Science, Social Science and Arts, NOT necessarily in the same order. Each of them teaches on only one day, from Monday to Saturday, NOT necessarily in the same order. J teaches Arts on Saturday. L teaches neither English nor Social Science, but he teaches on Thursday. Wednesday is reserved for Maths taught by K. O teaches Science a day before N. Social Science is taught a day before Arts. Which subject is taught on the day between Thursday and Saturday?

- A Social Science
- B Maths
- C Science
- D English

Answer: A

Explanation:

J teaches Arts on Saturday. Social Science is taught a day before Arts, => Social Science is taught on Friday.

Wednesday is reserved for Maths taught by K.

Day	Teacher	Subject
Monday		
Tuesday		
Wednesday	K	Maths
Thursday	L	
Friday		Social Science
Saturday	J	Arts

L teaches neither English nor Social Science, but he teaches on Thursday. O teaches Science a day before N.

Day	Teacher	Subject
Monday	O	Science
Tuesday	N	English
Wednesday	K	Maths
Thursday	L	Hindi
Friday	M	Social Science
Saturday	J	Arts

Thus, **Social Science** subject is taught on the day between Thursday and Saturday.

=> Ans - (A)

Question 24

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

Famous : Renowned :: Moisten : ?

- A Drench
- B Desire
- C Debate
- D Drink

Answer: A

Explanation:

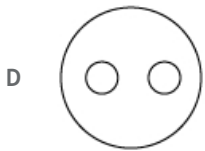
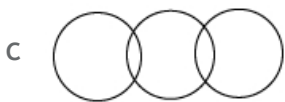
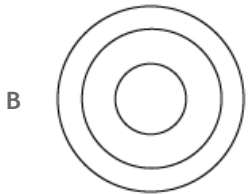
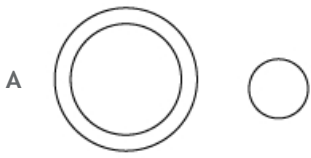
The first two words are pairs of synonyms, similarly word which has same meaning as moisten is **drench**.

=> Ans - (A)

Question 25

Select the Venn diagram that best represents the given set of classes.

Whales, Bats, Mammals



Answer: D

Explanation:

Whales and bats both come under the category of mammals, but are completely different from each other, hence the venn diagram that best describes above relation is :



=> Ans - (D)

General knowledge

Instructions

For the following questions answer them individually

Question 26

Which of the following Union Territories is given partial statehood in India?

- A Chandigarh
- B Dadra and NagarHaveli
- C Daman Diu
- D Puducherry

Answer: D

Question 27

Malaria and Kala Azar are caused by:

- A bacteria
- B fungi
- C protozoa
- D virus

Answer: C

Question 28

Choose the correct group of important Gods of the Vedic period.

- A Brahma, Prajapati, Garuda
- B Seshanaga, Chandra, Yama
- C Varuna, Vishnu, Shiva
- D Agni, Indra, Soma

Answer: D

Question 29

Which of the following statements is NOT correct about the Tundra type of vegetation?

- A Small shrubs are a part of this vegetation.
- B Moss and lichens are found here.
- C The growth of natural vegetation is limited here.
- D It is found in a temperate region.

Answer: D

Question 30

The Justice Rajendar Sachar Committee was set up by the Government of India to :

- A study the condition of unorganized sector of Indian Economy.
- B study the conditions of National parks in India.
- C examine the status of India's foreign policy.
- D examine the social and economic status of the Muslim community.

Answer: D

Question 31

In the context of Elections in India, the term VVPAT stands for:

- A Voter Visit Poll Account Trail
- B Voter Vivid Press Audit Trail
- C Voter Verifiable Paper Audit Trail
- D Voter Verifiable Paper Account Trail

Answer: C

Question 32

Which of the following places served as the venue for the closing ceremony of Pravasi Bharatiya Divas 2019?

- A Chandigarh
- B Pune
- C Varanasi
- D Kochi

Answer: C

Question 33

The other name of the tertiary sector is :

- A service sector
- B primary sector
- C manufacturing sector
- D public sector

Answer: A

Question 34

'Bibi Ka Maqbara, the replica of the Taj Mahalis situated in :

- A Chandarnagar
- B Aurangabad
- C Ahmedabad
- D Cuttack

Answer: B

Question 35

In the context of the Indian Constitution, which of the following Articles guarantees the Right to Freedom of Religion to its citizens?

- A Article 14
- B Article 25
- C Article 32
- D Article 22

Answer: B

Question 36

The type of unemployment in the agricultural sector of India where more people are employed than required is known as:

- A disguised unemployment
- B seasonal unemployment
- C structural unemployment
- D marginal unemployment

Answer: A

Question 37

Sandstone is an example of :

- A non-foliated rock
- B sedimentary rock
- C igneous rock
- D metamorphic rock

Answer: B

Question 38

Which bridge connects Dibrugarh in Assam to Pasighat in Arunachal Pradesh?

- A Naini
- B Bogibeel
- C Coronation
- D Pamban

Answer: B

Question 39

Food containing oil and fat, when kept for a longer time, causes a change in its taste and smell due to the process of

- A decomposition
- B fermentation
- C rancidity
- D substitution

Answer: C

Question 40

The Ryotwari System was introduced by:

- A Warren Hastings
- B Lord Cornwallis
- C Thomas Munro
- D Lord Ripon

Answer: C

Question 41

With reference to the Mahatma Gandhi National Rural Employment Guarantee Act, which of the following statements is NOT correct?

- A It is also known as the Right to Work.
- B It is implemented by the Ministry of Rural Development.
- C It was initiated by the Government of India in 2009.
- D It guarantees 100 days of work to the beneficiary.

Answer: C

Question 42

The Bandipur National Park is located in which state of India?

- A Karnataka
- B Tamil Nadu
- C Odisha
- D Chhattisgarh

Answer: A

Question 43

Light Year is related to :

- A weather
- B distance

C sound

D speed

Answer: B

Question 44

The.....collects sound from the surroundings.

A auditory nerve

B tympanic membrane

C cochlea

D pinna

Answer: D

Question 45

The 2018 Dronacharya Award for Table Tennis was given to :

A Srinivasa Rao

B Jivan Kumar Sharma

C Vijaya Sharma

D Tarak Sinha

Answer: A

Question 46

The Lahore session of the Indian National Congress is significant because:

A it passed the resolution to demand Poorna Swaraj.

B it passed the resolution to start the Rowlatt Satyagraha.

C it passed the resolution to hold civil services examination in India.

D it passed the resolution to boycott provincial elections.

Answer: A

Question 47

After some days, statues of brass and bronze become green due to:

A oxidation

B corrosion

C erosion

D decomposition

Answer: B

Question 48

The bronze sculpture of Nataraja was cast during the period of the:

- A Cheras
- B Pallavas
- C Cholas
- D Pandyas

Answer: C

Question 49

'Bali Yatra', the voyage to Bali, is celebrated in which of the following states of India?

- A Tamil Nadu
- B Rajasthan
- C Kerala
- D Odisha

Answer: D

Question 50

Which Indian cricketer has become the fastest bowler to claim 100 wickets in One-day Internationals as on January 2019?

- A Ishant Sharma
- B Umesh Yadav
- C Hardik Pandya
- D Mohammed Shami

Answer: D

Quant

Instructions

For the following questions answer them individually

Question 51

What is the value of $\left[\left(2^{\frac{1}{4}} - 4^{\frac{1}{2}} \times 2^{\frac{1}{2}} \times 3 \right) \text{ of } \left(3^{\frac{2}{3}} \div 3^{\frac{4}{3}} + 2 \right) \right]$?

- A $\frac{1}{2}$
- B $\frac{5}{2}$

C $\frac{3}{4}$

D $\frac{4}{3}$

Answer: D

Explanation:

Expression : $[(2 \div 4 - 4 \times 2 \times 3) \text{ of } (3 \div 3 + 2)]$

$= [(2 \times 4 - 4 \times 2 \times 3) \times (3 \times 4 + 2)]$

$= [(2 - 3) \times (2 + 2)]$

$= (3^{-2}) \times 1$

$= 3^4$

=> Ans - (D)

Question 52

K alone can complete a work in 20 days and M alone can complete the same work in 30 days. K and M start the work together but K leaves the work after 5 days of the starting of work. In how many days M will complete the remaining work?

A $\frac{35}{2}$ days

B $\frac{25}{2}$ days

C $\frac{55}{2}$ days

D $\frac{45}{2}$ days

Answer: A

Explanation:

Let total work to be done = L.C.M. (20,30) = 60 units

K can complete it in 20 days, => K's efficiency = $\frac{60}{20} = 3$ units/day

Similarly, M's efficiency = $\frac{60}{30} = 2$ units/day

=> Work done in 5 days together = $(3 + 2) \times 5 = 25$ units

Let M complete the remaining work in t days

$=> 25 + 2t = 60$

$=> t = \frac{35}{2}$ days

=> Ans - (A)

Question 53

A sum becomes three times of itself in 10 years at the rate of simple interest. What is the rate of interest per annum?

A 25%

B 20%

C 15%

D 30%

Answer: B

Explanation:

Let principal sum = Rs. x

The sum becomes 3 times after 10 years, \Rightarrow Simple interest = Rs. $2x$

$$\text{Simple interest} = \frac{P \times R \times T}{100}$$

$$\Rightarrow \frac{x \times r \times 10}{100} = 2x$$

$$\Rightarrow 10 = 2$$

$$\Rightarrow r = 20\%$$

\Rightarrow Ans - (B)

Question 54

The sum of the volume of two solid spheres is $\frac{1144}{3} \text{ cm}^3$. If the sum of their radii is 7 cm, then what will be the difference of the radii?

A 4 cm

B 3 cm

C 2 cm

D 1 cm

Answer: D

Explanation:

Let radii of two spheres be r_1 and r_2 cm respectively, $\Rightarrow (r_1 + r_2) = 7 \text{ cm}$ ----- (i)

$$\text{Sum of volume} = \frac{4}{3}\pi(r_1)^3 + \frac{4}{3}\pi(r_2)^3 = \frac{1144}{3}$$

$$\Rightarrow \left(\frac{4}{3} \times \frac{22}{7}\right) [(r_1)^3 + (r_2)^3] = \frac{1144}{3}$$

$$\Rightarrow (r_1)^3 + (r_2)^3 = 91$$
----- (ii)

Cubing equation (i) on both sides,

$$\Rightarrow (r_1)^3 + (r_2)^3 + 3(r_1)(r_2)(r_1 + r_2) = 343$$

Substituting value from equation (i) and (ii), we get :

$$\Rightarrow 21r_1r_2 = 343 - 91 = 252$$

$$\Rightarrow r_1r_2 = 12$$
----- (iii)

Also, squaring equation (i) on both sides, $\Rightarrow (r_1)^2 + (r_2)^2 + 2(r_1)(r_2) = 49$

$$\Rightarrow (r_1 - r_2)^2 + 4r_1r_2 = 49$$

Substituting value from equation (iii),

$$\Rightarrow (r_1 - r_2)^2 = 49 - 48 = 1$$

$$\Rightarrow (r_1 - r_2) = 1$$

\Rightarrow Ans - (D)

Question 55

Rohit, Mohit and Sumit individually can complete a work in 8 days, 14 days and 21 days respectively. In how many days these three together can complete the same work?

- A 156/43 days
- B 168/41 days
- C 168/43 days
- D 156/41 days

Answer: B

Explanation:

Let total work to be done be L.C.M.(8,14,21) = 168 units

Rohit complete it in 8 days, => Rohit's efficiency = $\frac{168}{8} = 21$ units/day

Similarly, Mohit's efficiency = $\frac{168}{14} = 12$ units/day

And Sumit's efficiency = $\frac{168}{21} = 8$ units/day

Thus, total work done in 1 day = (21 + 12 + 8) = 41 units

∴ Time taken to complete the work when all are working together = $\frac{168}{41}$ days

=> Ans - (B)

Question 56

What is the mode of the given data?

3, 0, 1, 0, 2, 1, 2, 0, 1, 2, 1, 1, 1, 3, 2

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

Answer: A

Explanation:

Arranging in ascending order : 0, 0, 0, 1, 1, 1, 1, 1, 1, 2, 2, 2, 2, 3, 3

Thus, the most repeated term = Mode = 1

=> Ans - (A)

Question 57

If a number is divided by 14, then it becomes equal to 10% of the second number. First number is how much percent more than the second number?

- A 40%
- B 45%
- C 60%
- D 30%

Answer: A

Explanation:

Let first number be 14x and second number be y

According to ques, => $x = 10\%$ of y

$$\Rightarrow 10x = y$$

$$\Rightarrow y = 10$$

Let $x = 1$ and $y = 10$

Numbers are 14 and 10

$$\Rightarrow \text{First number is greater than second by} = \frac{14-10}{10} \times 100 = 40\%$$

\Rightarrow Ans - (A)

Question 58

If selling price of an article is ₹638 and profit is 45%, then what will be the net profit?

A ₹256

B ₹287.1

C ₹440

D ₹198

Answer: D

Explanation:

Selling price of article = Rs. 638 and profit % = 45%

$$\Rightarrow \text{Cost price} = \frac{638}{145} \times 100 = \text{Rs. } 440$$

$$\therefore \text{Net profit} = 638 - 440 = \text{Rs. } 198$$

\Rightarrow Ans - (D)

Question 59

If Sohan is driving a bike at a speed of 25 m/s, then in how much time Sohan will cover a distance of 540 km?

A 7 hr

B 5 hr

C 21.6 hr

D 6 hr

Answer: D

Explanation:

$$\text{Speed of Sohan} = (25 \times \frac{18}{5}) = 90 \text{ km/hr}$$

Time taken to cover 540 km = distance/speed

$$= \frac{540}{90} = 6 \text{ hours}$$

\Rightarrow Ans - (D)

Question 60

The area of a square and a rectangle are equal. The length of the rectangle is greater than the side of a square by 5 cm and its breadth is less than the side of square by 4 cm. What will be the perimeter of the rectangle?

A 84 cm

B 82 cm

C 76 cm

D 72 cm

Answer: B

Explanation:

Let side of square = x cm

=> Length of rectangle = $(x + 5)$ cm and breadth = $(x - 4)$ cm

Area of square = Area of rectangle

$$\Rightarrow x^2 = (x + 5)(x - 4)$$

$$\Rightarrow x^2 = x^2 + x - 20$$

$$\Rightarrow x = 20 \text{----- (i)}$$

Thus, sides of rectangle are 25 cm and 16 cm

\therefore Perimeter of rectangle = $2(25 + 16) = 82$ cm

=> Ans - (B)

Question 61

The ratio of two numbers is 13 : 20. If the difference between them is 189, then what is the smaller of the two numbers?

A 279

B 221

C 297

D 351

Answer: D

Explanation:

Let the numbers be $13x$ and $20x$

$$\text{Difference} = 20x - 13x = 7x = 189$$

$$\Rightarrow x = \frac{189}{7} = 27$$

$$\text{Smaller number} = 13 \times 27 = 351$$

=> Ans - (D)

Question 62

Marked price of an article is 40% more than its cost price. If 50% discount is given on the article, then selling price is what percent of the cost price?

A 78%

B 70%

C 93%

D 84%

Answer: B

Explanation:

Let cost price of the article = Rs. $100x$

=> Marked price = Rs. $140x$

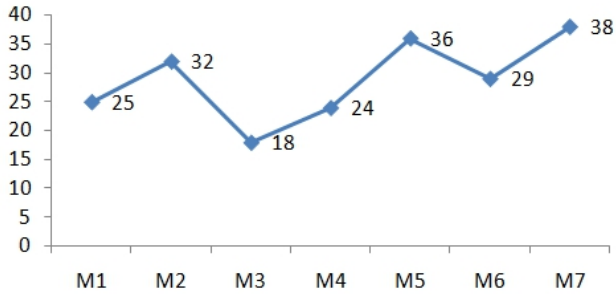
=> Selling price after 50% discount = Rs. $70x$

Thus, required % = $\frac{70x}{100x} \times 100 = 70\%$

=> Ans - (B)

Question 63

The line chart given below shows the production (in 10000s) of cars in 7 different months.



What is the average monthly production for the given 7 months?

A 32.2 (in 10000s)

B 21.6 (in 10000s)

C 23.5 (in 10000s)

D 28.8 (in 10000s)

Answer: D

Explanation:

Total monthly production for the given 7 months (in 10000s) = $25 + 32 + 18 + 24 + 36 + 29 + 38 = 202$

=> Required average = $\frac{202}{7} = 28.8$

=> Ans - (D)

Question 64

The table given below shows the marks obtained by 4 students in 5 subjects. The maximum marks of each subject is 100.

Subjects	Students			
	P1	P2	P3	P4
S1	89	100	92	91
S2	62	52	72	37
S3	57	55	70	65
S4	76	85	76	58
S5	85	70	66	62

What are the average marks per subject obtained by P2?

A 72.4

B 75.8

C 70.6

D 74.6

Answer: A

Explanation:

Total marks obtained by P2 = $100 + 52 + 55 + 85 + 70 = 362$

=> Required average = $\frac{362}{5} = 72.4$

=> Ans - (A)

Question 65

What is the value of $[45 \text{ of } (7 \div 14) - (62 \div 3 - 4) + 2]$?

A $\frac{131}{6}$

B $\frac{147}{11}$

C $\frac{109}{6}$

D $\frac{33}{7}$

Answer: A

Explanation:

Expression : $[45 \text{ of } (7 \div 14) - (62 \div 3 - 4) + 2]$

$= [45 \times (7 \times \frac{14}{15}) - (2 \div 3 - 4) + 2]$

$= 18 - \frac{13}{6} + 4 + 2$

$= 24 - \frac{13}{6} = \frac{131}{6}$

=> Ans - (A)

Question 66

If Mohit can cover a distance of 1872 km in 26 hours, then what is the speed of Mohit?

A 36 km/hr

B 72 km/hr

C 20 m/s

D Both (B) and (C)

Answer: D

Explanation:

Speed of Mohit = distance/time

$= \frac{1872}{26} = 72 \text{ km/hr}$

$= (72 \times \frac{5}{18}) = 20 \text{ m/s}$

=> Ans - (D)

Question 67

A person purchases calculators at the rate of ₹345 per calculator. If he sells calculators on 40% loss then what will be the selling price of 28 calculators?

A ₹6872

B ₹8657

C ₹13524

D ₹5796

Answer: D

Explanation:

Cost price of 1 calculator = Rs. 345

Selling price after 40% loss = $100 \times \frac{60}{100} \times 345 = Rs. 207$

=> Selling price of 28 calculators = $28 \times 207 = Rs. 5796$

=> Ans - (D)

Question 68

Height of a right circular cylinder is 20 cm. If the radius is its base 14 cm, then what will be the curved surface area of the cylinder?

A 1940 cm^2

B 2120 cm^2

C 1760 cm^2

D 1880 cm^2

Answer: C

Explanation:

Height of cylinder = $h = 20$ cm and radius = $r = 14$ cm

Curved surface area of cylinder = $2\pi rh$

= $2 \times \frac{22}{7} \times 14 \times 20 = 1760 \text{ cm}^2$

=> Ans - (C)

Question 69

The average salary of managers is x and the average salary of workers is y . The number of the managers is 15 times of the number of workers. What is average salary of managers and workers together?

A $\frac{(15x+y)}{16}$

B $\frac{(15x+y)}{(x+y)}$

C $\frac{(x+15y)}{(x+y)}$

D $\frac{(x+15y)}{16}$

Answer: A

Explanation:

Let number of workers = 1, => Number of managers = 15

=> Total salary of workers = y and total salary of managers = $15x$

\therefore Required average = $\frac{15x+y}{16}$

$$\frac{(15x+y)}{16}$$

=> Ans - (A)

Question 70

The average weight of 10 articles is 65 kg. If three articles having an average weight of 72 kg are removed, then what will be new average weight of the remaining articles?

- A 58 kg
- B 65 kg
- C 71 kg
- D 62 kg

Answer: D

Explanation:

Total weight of 10 articles = $10 \times 65 = 650$ kg

Weight of the removed 3 articles = $3 \times 72 = 216$ kg

$$\Rightarrow \text{New average weight} = \frac{650-216}{7} = \frac{434}{7} = 62 \text{ kg}$$

=> Ans - (D)

Question 71

P, Q and R invest ₹14000, ₹18000 and ₹24000 respectively to start a business. If the profit at the end of the year is ₹25480, then what is difference between the profits of P and Q?

- A ₹2670
- B ₹3480
- C ₹1820
- D ₹2140

Answer: C

Explanation:

Since, they all invest for the same time period, hence ratio of profits is equal to ratio of investments.

$$= 7 : 9 : 12$$

$$\Rightarrow \text{Difference between profits of P and Q} = \frac{(9-7)}{(7+9+12)} \times 25480$$

$$= 2 \times 910 = \text{Rs. } 1820$$

=> Ans - (C)

Question 72

What will be the highest number which when divides 52 and 104 leaves remainder 4 and 8 respectively?

- A 12
- B 48
- C 16

D 26

Answer: B

Explanation:

Required numbers are $= 52 - 4$ and $104 - 8 = 48$ and 96

Thus, H.C.F. $(48, 96) = 48$

\Rightarrow Ans - (B)

Question 73

If $x : y = 5 : 4$, then what will be the ratio of $\binom{x}{y} : \binom{y}{x}$?

A 25 : 16

B 16 : 25

C 4 : 5

D 5 : 4

Answer: A

Explanation:

Given $= x : y = 5 : 4$

Let $x = 5$ and $y = 4$

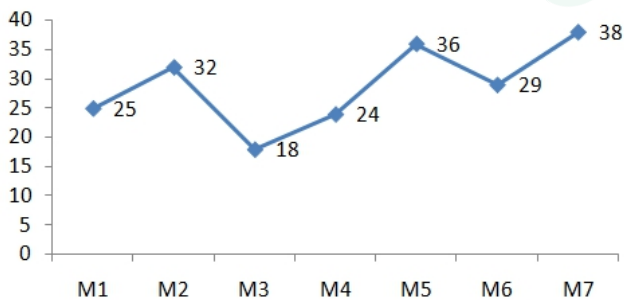
To find $= \binom{x}{y} : \binom{y}{x}$

$= x^2 : y^2 = 25 : 16$

\Rightarrow Ans - (A)

Question 74

The line chart given below shows the production (in 10000s) of cars in 7 different months.



Production of cars in month M2 is how much percent more than the production of cars in month M1?

A 25%

B 37.5%

C 33.33%

D 28%

Answer: D

Explanation:

Production of cars in month M2 = 32 and in M1 = 25

$$\Rightarrow \text{Required \%} = \frac{32-25}{25} \times 100$$

$$= 7 \times 4 = 28\%$$

\Rightarrow Ans - (D)

Question 75

A sum of ₹4500 is lent at compound interest. If the rate of interest is 10% per annum (interest is compounded annually), then what will be the amount after 3 years?

A ₹5989.5

B ₹5689.5

C ₹5686.5

D ₹5889.5

Answer: A

Explanation:

Principal sum = Rs. 4500

Rate of interest = 10% and time = 3 years

Amount under compound interest = $P\left(1 + \frac{r}{100}\right)^t$

$$= 4500\left(1 + \frac{10}{100}\right)^3$$

$$= 4500 \times (1.1)^3 = \text{Rs. } 5989.5$$

\Rightarrow Ans - (A)

English

Instructions

For the following questions answer them individually

Question 76

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

The prince was told kill the dragon, but in order to do so, he had to cross the Forbidden Mountain.

A was told killing the dragon

B No improvement

C was told too kill the dragon

D was told to kill the dragon

Answer: D

Question 77

From the given options, identify the segment in the sentence which contains the grammatical error.

Ten years since Mohit left India and started working for the betterment of the downtrodden people.

- A Ten years since
- B the betterment of
- C started working for
- D Mohit left India

Answer: A

Question 78

Select the option that means the same as the given idiom.
At the drop of a hat

- A Instantly
- B Lately
- C Slowly
- D Seldom

Answer: A

Question 79

Select the correctly spelt word.

- A Calander
- B Calendar
- C Calandar
- D Calender

Answer: B

Question 80

Select the most appropriate option to fill in the blank.
The film we saw last night was boring. I wish I..... seen it.

- A didn't
- B hadn't
- C shouldn't
- D wouldn't have

Answer: B

Question 81

Select the correctly spelt word.

- A Mentainance

- B Maintainance
- C Maintainence
- D Maintenance

Answer: D

Question 82

Select the antonym of the given word.

BOISTEROUS

- A Aggravated
- B Incompetent
- C Restrained
- D Exuberant

Answer: C

Question 83

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

A person who thinks he/she is the best.

- A Eccentric
- B Egoist
- C Selfish
- D Garrulous

Answer: B

Question 84

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select No Improvement.

The mobile company changed their handsets last year, and by doing so they have managed to improve their sale.

- A No improvement
- B improve the sale
- C improve their sales
- D improved their sales

Answer: C

Question 85

Select the synonym of the given word.

AMIABLE

- A Cheerful

B Bashful

C Hostile

D Friendly

Answer: D

Question 86

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.

Don't use those pencils; use the one we bought in Portugal.

A No improvement

B use this ones

C use one

D use the ones

Answer: D

Question 87

Select the synonym of the given word.

TURBULENT

A Violent

B Miserable

C Accurate

D Troublesome

Answer: A

Question 88

From the given options, identify the segment in the sentence which contains the grammatical error.

If I am a bird, I would fly and explore the world.

A I would fly

B and explore

C If I am

D the world

Answer: C

Question 89

Select the most appropriate word to fill in the blank.

Beware of him. He is as sly as a

- A goat
- B rabbit
- C snail
- D fox

Answer: D

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given.

Passage:

Most animals have their own habitats(1) some make long journeys from one region to another. This.....(2) called migration. It takes place at a particular(3) of the year. Birds are the best-known..... (4) but many other animals also migrate to places with(5) climate.

Question 90

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

- A but
- B because
- C so
- D as

Answer: A

Question 91

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

- A are
- B were
- C is
- D was

Answer: C

Question 92

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

- A season
- B time
- C month
- D part

Answer: B

Question 93

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

- A visitors
- B migrants
- C travellers
- D tourists

Answer: B

Question 94

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

- A extreme
- B favourable
- C harsh
- D cold

Answer: B

Instructions

For the following questions answer them individually

Question 95

Select the antonym of the given word.

URGE

- A Deter
- B Persuade
- C Triumph
- D Request

Answer: A

Question 96

Select the most appropriate option to fill in the blank.

When she bid farewell to her parents, her eyes were full..... tears.

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

Answer: B

Question 97

From the given options, identify the segment in the sentence which contains the grammatical error.
He cannot speak Spanish because he was born and brought up in Spain.

- A born and brought up
- B He cannot speak
- C because he was
- D in Spain.

Answer: C

Question 98

Select the word which means the same as the group of words given.
A life history written by somebody else

- A Autobiography
- B Museology
- C Biography
- D Bibliography

Answer: C

Question 99

Select the option that means the same as the given idiom.
Spill the beans

- A To keep the secret
- B To be productive
- C To leak the secret
- D To be clumsy

Answer: C

Question 100

Select the most appropriate word to fill in the blank.
Let us go for a picnic today. The..... is very pleasant.

- A atmosphere
- B climate
- C weather
- D season

Answer: C



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