



RRB JE 29th May 2019 Shift-1

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Instructions

For the following questions answer them individually

Question 1

Which of the following separation techniques is applied for separation of sodium chloride from its solution in water?

- A Sublimation
- B Filtration
- C Evaporation
- D Centrifugation

Answer: C

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Question 2

Under which plan did the Government introduce an agricultural strategy which gave rise to Green Revolution?

- A Third Five-Year Plan
- B Second Five-Year Plan
- C Fourth Five-Year Plan
- D Sixth Five-Year Plan

Answer: C

Question 3

Compare the weight of an object on the Moon and the weight of it on the Earth.

- A The object weighs its original weight on the Earth and its weight is Zero on the Moon
- B The object weighs more on the Moon than on the Earth
- C The object weighs lesser on the Moon than on the Earth
- D The object weighs the same on the Moon and on the Earth

Answer: C

Question 4

Which city in Uttar Pradesh is famous for 'Glass Bangles' industry?

- A Moradabad
- B Aligarh
- C Agra
- D Firozabad

Answer: D

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Question 5

The cell body of a neuron is called-

- A Perikaryon
- B Soma
- C Dendron
- D Schwann cell

Answer: B

Question 6

Find the ODD one out from the given options.

- A H
- B N
- C K
- D Z

Answer: C

Explanation:

Conversion Table

A = 1	K = 11	U = 21
B = 2	L = 12	V = 22
C = 3	M = 13	W = 23
D = 4	N = 14	X = 24
E = 5	O = 15	Y = 25
F = 6	P = 16	Z = 26
G = 7	Q = 17	
H = 8	R = 18	
I = 9	S = 19	
J = 10	T = 20	

H=8, K=11, N=14 and Z=26.

So, other than K each letter carries even values.

C is correct choice.

Question 7

Fort William in India is located on the river banks of-

- A Chenab
- B Hooghly
- C Godavari
- D Yamuna

Answer: B

Question 8

A goods train runs at a speed of 72 km/hr and crosses a 250 m long platform in 26 seconds. What is the length of the goods train?

- A 230 m
- B 240 m
- C 260 m
- D 270 m

Answer: D

Explanation:

$$\text{Trains speed} = 72 \frac{\text{km}}{\text{h}} = \frac{72000}{3600} = 20 \frac{\text{m}}{\text{s}}$$

So, in 26 sec, it will cover = $26 \times 20 \text{ m} = 520 \text{ m}$.

It covers platform's length and train's length in 26 secs.

So, Trains length = $(520 - 250) = 270 \text{ m}$.

D is correct choice.

Question 9

In two similar triangles, ratio of their corresponding sides is 1 : 3 and the area of the larger triangle is 72 cm^2 . then find the area of the smaller triangle.

- A 8 cm^2
- B 14 cm^2
- C 18 cm^2
- D 9 cm^2

Answer: A

Explanation:

Let say, area of larger triangle = Δ_1 and area of smaller triangle is Δ_2 .

$$\text{So, } \frac{\Delta_1}{\Delta_2} = \left(\frac{3}{1}\right)^2 = 9$$

$$\text{So, } \frac{72}{\Delta_2} = 9$$

$$\text{or, } \Delta_2 = 8$$

A is correct choice.

Question 10

On which of the following factors, does the frictional force on an object in a fluid depend upon?

- A Nature of the fluid
- B Shape of the object
- C Speed with respect to the fluid
- D All of the options

Answer: D

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Question 11

Find the wrong number in the given series.
428, 413, 398, 384, 368, 353

- A 398
- B 384
- C 428
- D 353

Answer: B

Explanation:

$428 - 15 = 413$, $413 - 15 = 398$, $398 - 15 = 383$, $383 - 15 = 368$, $368 - 15 = 353$.

B is correct choice.

Question 12

Which number will best complete the relationship given below ?
7 : 350 :: 8 : ?

- A 540
- B 530
- C 510
- D 520

Answer: D

Explanation:

$7 : 350 \Rightarrow 7^3 + 7 = 343 + 7 = 350$.

$8 : 520 \Rightarrow 8^3 + 8 = 512 + 8 = 520$.

D is correct choice.

Question 13

Which of the following describes how electrons are put into orbitals in a particular order for filling?

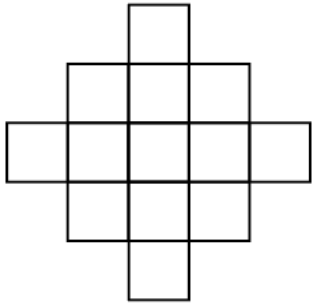
- A Aufbau principle
- B Pauli's exclusion principle
- C Hund's rule
- D Wiswesser rule

Answer: A

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Question 14

How many squares are there in the given figure ?



- A 18
- B 16
- C 15
- D 10

Answer: A

Explanation:

Total number of small squares = 13.

1 large square is there in the middle.

And, medium small size square = 4.

So, total number of squares = $13+1+4=18$.

A is correct choice.

Question 15

_____ can fix nitrogen from air on its own.

- A Maize
- B Legumes
- C Wheat
- D Tubers

Answer: B

Question 16

16 January 2007 was Tuesday. What day of the week was 16 January 2008?

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

Answer: D

Explanation:

Year 2008 is a leap year.

So, It will be a year of 366 days.

So, 16 January 2008 will be on Wednesday, as their will be on extra day will count.

D is correct choice.

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Question 17

Ages of a brother and sister are in the ratio 4 : 3. After 3 years, the sister will be twice as old as she is now. How old is the brother now?

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

Answer: A

Explanation:

Let say, Brother's age is $4k$ and Sister's age is $3k$.

According to question,

$$6k = 3k + 3$$

or, $k = 1$.

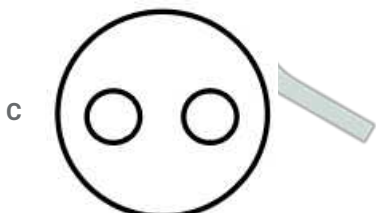
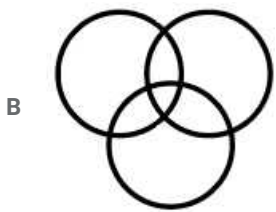
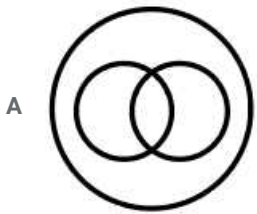
So, Brother is 4 year old.

A is correct choice.

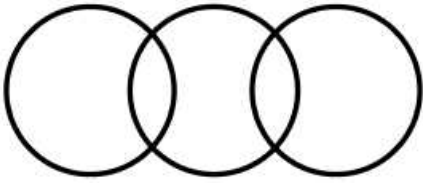
Question 18

Choose the figure that best represents the relationship among the classes given below.

Oil, Wick, Lamp



D



Answer: C

Explanation:

Oil and Wick are used to light up a lamp.

So, they belong to Lamp equipment.

C is correct choice.

Question 19

Escherichia coli occurs in -

- A Water
- B Soil
- C Milk
- D Intestine of man

Answer: D

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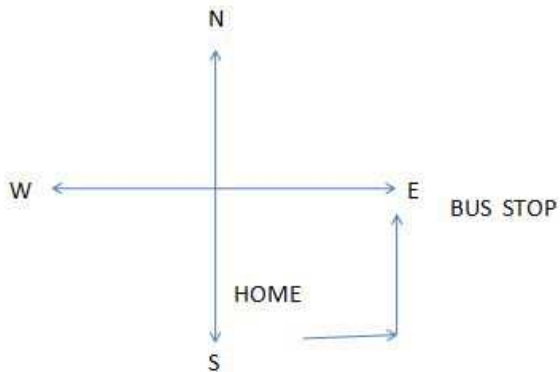
Question 20

Ragu walks straight from his home to reach a busstop. After walking for some distance, he turns left and reaches the bus stop which is in the east. Find the direction of the bus stop from his home ?

- A South east
- B North east
- C North west
- D South west

Answer: A

Explanation:

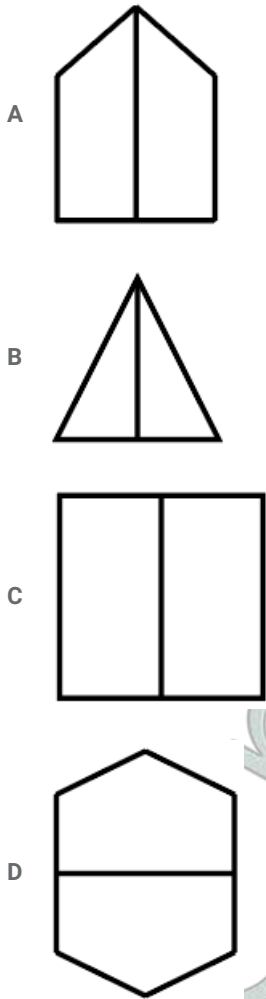


So, His home is in South-East direction.

A is correct choice.

Question 21

Find the ODD one out from the given options.



Answer: D

Explanation:

Image in A,B and C : a straight line is added in middle from up to bottom.

But in Image D , a flat line is added to the center.

D is correct choice.

Question 22

Which of the following countries has received the ICC Test Championship mace for third consecutive year on April 1, 2019?

- A Australia
- B India
- C South Africa
- D England

Answer: B

Question 23

Out of 5 cards with numbers 1, 2, 3, 4, 5, two are picked at random one after the other. What is the probability that the number in the second card is odd?

- A $\frac{3}{4}$
- B $\frac{3}{10}$
- C $\frac{1}{6}$
- D $\frac{3}{5}$

Answer: D

Explanation:

He can pick any card in $5 \times 4 = 20$ number of ways.

But he can pick an odd numbered card in second attempt by { (1, 3), (1, 5), (2, 1), (2, 3), (2, 5), (3, 1), (3, 5), (4, 1), (4, 3), (4, 5), (5, 1), (5, 3) }:

12 different ways.

So, required probability = $\frac{12}{20} = \frac{3}{5}$.

D is correct choice.

Question 24

Which branch of Zoology is closely related to the study of Sociology of Human race ?

- A Anthropology
- B Physiology
- C Embryology
- D Zoogeography

Answer: A

Question 25

If 'BROTHER' is coded as 86, 'FATHER' is coded as 58 and 'SISTER' is coded as 90, then how will 'MOTHER' be coded in that language?

- A 73
- B 83
- C 52
- D 79

Answer: D

Explanation:

Conversion Table

A = 1	K = 11	U = 21
B = 2	L = 12	V = 22
C = 3	M = 13	W = 23
D = 4	N = 14	X = 24
E = 5	O = 15	Y = 25
F = 6	P = 16	Z = 26
G = 7	Q = 17	
H = 8	R = 18	
I = 9	S = 19	
J = 10	T = 20	

BROTHER = $2 + 18 + 15 + 20 + 8 + 5 + 18 = 86$.

FATHER = $6 + 1 + 20 + 8 + 5 + 18 = 58$.

SISTER = $19 + 9 + 19 + 20 + 5 + 18 = 90$.

So, MOTHER = $13 + 15 + 20 + 8 + 5 + 18 = 79$.

D is correct choice.

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Question 26

To test for divisibility of a number by 24, we should test the divisibility of the number by

- A 8
- B 3
- C 4 and 12
- D Both 8 and 3

Answer: D

Explanation:

$$24 = 2^3 \times 3 = 8 \times 3.$$

To test for divisibility of a number by 24, we should test the divisibility of the number by 8 and 3.

D is correct choice.

Question 27

In which of the following sports is the word 'libero' used?

- A Volleyball
- B Softball
- C Basketball
- D Handball

Answer: A

Question 28

The white liquid that oozes out of wounds is called-

- A Paste
- B Plasma

- C Pus
- D Saliva

Answer: C

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Question 29

$PbO_2 + 4HCl \rightarrow PbCl_2 + 2H_2O + Cl_2$, the substance undergoing oxidation is _____.

- A Lead chloride
- B Lead dioxide
- C Hydrochloric acid
- D Hydrogen

Answer: C

Question 30

Find the wrong number in the following series.

3, 6, 12, 27, 48, 96

- A 6
- B 27
- C 12
- D 48

Answer: B

Question 31

Earth belongs to which type of celestial body?

- A Star
- B Comet
- C Planet
- D Satellite

Answer: C

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Question 32

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) All books are toys.
- 2) No toy is black.

Conclusions:

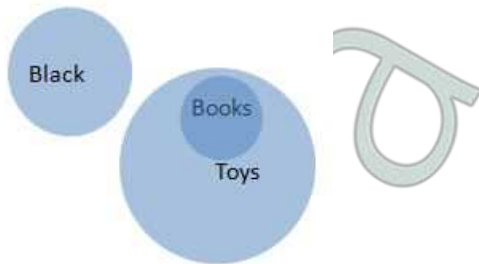
- I. No book is black.
- II. Some books are black.

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

Answer: C

Explanation:

From the given statements we can infer following image :



So, No Book is Black only possible conclusion.

C is correct choice.

Question 33

By selling an article, Madan earned a profit equal to one-fourth of the price he bought it. If he sold it for Rs.375, what was the cost price?

- A Rs.350
- B Rs.312.50
- C Rs.281.75
- D Rs.300

Answer: D

Explanation:

Let the cp be rs. x

then profit = $x/4$

sp = rs.375

profit = SP-CP

$x/4 = 375 - x$

$x/4 + x = 375$

$5x/4 = 375$

$x = 375 * 4/5$

$x = 300$

hence CP = rs. 300

D is correct choice.

Question 34

A set-up of having a large number of wind turbines working at a place to generate electrical energy on a large scale is called a-

- A Farm house

- B Wind energy farm
- C Turbine farm
- D Electrical farm

Answer: B

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Question 35

Which of the following mobile apps won the Digital India Award 2018 under Best Mobile App category ?

- A Skill Pill
- B Moodle Mobile
- C ePathshala
- D E.Learning Age

Answer: C

Question 36

Which number will best complete the relationship given below?

4 : 64 :: 6 : ?

- A 187
- B 216
- C 223
- D 219

Answer: B

Explanation:

4 : 64 $\Rightarrow 4^3 = 64$. and 6 : 216 $\Rightarrow 6^3 = 216$.

B is correct choice.

Question 37

In which of the following states of India is Sriharikota situated ?

- A Arunachal Pradesh
- B Tamil Nadu
- C Bihar
- D Andhra Pradesh

Answer: D

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Question 38

Dendrimers are nano-sized, radially symmetric molecules used in-

- A Health and pharmaceutical industry
- B Telecommunication industry
- C Defence industry
- D Automobile industry

Answer: A

Question 39

A contractor under takes to repair roads with 120 men in 124 days. After 64 days, as $\frac{2}{3}$ of the work has been over already. He withdraws some men as surplus. If the work is completed in time, how many men were removed ?

- A 56
- B 72
- C 40
- D 64

Answer: A

Explanation:

Part of the work completed in 64 days = $\frac{2}{3}$

Part of the work completed in 32 days = $\frac{1}{3}$

Remaining work = $\frac{1}{3}$

$\frac{1}{3}$ of the work can be completed in 32 days by 120 men

How many men can complete $\frac{1}{3}$ of the work in 60 days?

$$32:60 = x:120$$

$$x = (32 \times 120) / 60$$

$$x = 64$$

64 men can complete $\frac{1}{3}$ of the work in 60 days.

$$120 - 64 = 56$$

Therefore, 56 men have to be removed to complete the remaining work in 60 days.

A is correct choice.

Question 40

Where did the first battle of Panipat take place?

- A Jammu and Kashmir
- B Haryana
- C Punjab
- D Rajasthan

Answer: B

Question 41

Which of these is NOT fought with bare palms?

- A Karate
- B Boxing
- C Judo
- D Wrestling

Answer: B

Question 42

In periodic table, valence electrons are indicated by-

- A Period number
- B Group number
- C Shell number
- D Atomic mass

Answer: B

Question 43

Pipes P and Q can fill a tank in 20 and 16 hours respectively. Pipe Q alone was opened for $\frac{1}{4}$ of time and later P also was opened. In how many hours was the tank filled?

- A 16 hours
- B 10 hours
- C 18 hours
- D 12 hours

Answer: B

Explanation:

Let the required time be x hours.

then Pipes, P & Q :

$$\Rightarrow x/16 + 3x/80 = 1$$

$$\Rightarrow 8x/80 = 1$$

$$\Rightarrow x = 10 \text{ hours.}$$

B is correct choice.

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Question 44

The sum of the digits of a two-digit number is 9 less than the number. Which of the following digits is at ten's place of the number ?

- A 2

B 4

C 5

D 1

Answer: D

Explanation:

Let say, the number is 'ab'.

So, $ab = 10a + b$.

According to question,

$a + b = 10a + b - 9$.

or, $a = 1$.

So, digit in ten's place is 1.

D is correct choice.

Question 45

Two numbers are in the ratio 4 : 5 and their LCM is 100. What is their difference?

A 25

B 5

C 20

D 10

Answer: B

Explanation:

Let say, two numbers are $4k$ and $5k$.

So, $LCM(4k, 5k) = 20k$.

So, $20k = 100$.

or, $k = 5$.

So, Numbers are 20 and 25.

Their difference is 5.

B is correct choice.

Question 46

In which type of waves do the vibrations move parallel to the direction of travelling of wave ?

A Transverse

B Longitudinal

C Surface

D Microwaves

Answer: B

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Question 47

P and Q run around a circular track of 240 m at 15 m/min and 20 m/min speeds respectively. If they start running simultaneously, after what time will they meet again at the starting point?

- A 30 minutes
- B 25 minutes
- C 36 minutes
- D 48 minutes

Answer: D

Explanation:

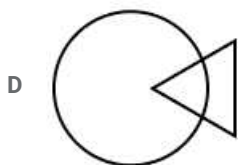
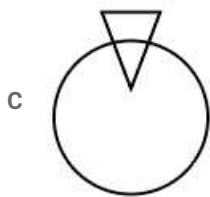
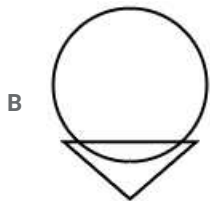
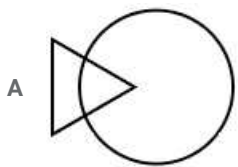
Their relative speed is $= (20 - 15) \frac{m}{\text{min}} = 5 \frac{m}{\text{min}}$.

So, They will meet at starting point after $\frac{240}{5} \text{ min} = 48 \text{ min}$.

D is correct choice.

Question 48

Find the ODD one out from the given options.



Answer: B

Explanation:

One of the cone of each triangle is partly overlapped with Circle in each diagram A,C and D.

But diagram in B is different from these options.

B is correct choice.

Question 49

Find the least number that should be added to 2497 so that the sum is divisible by 5, 6, 4 and 3.

- A 23
- B 33
- C 37
- D 13

Answer: A

Explanation:

$$LCM(5, 6, 4, 3) = 5 \times 4 \times 3 = 60.$$

So, A number is divisible by 5, 6, 4 and 3 if only it is in = $60k$ (where k is any integer) form.

If we put, $k=42$, $60k = 60 \times 42 = 2520$.

So, A least number $(2520 - 2497) = 23$ should be add.

A is correct choice.

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Question 50

Covalent bonds are formed by the between two atoms.

- A Transfer of protons
- B Transfer of electrons
- C Sharing of electrons
- D Sharing of protons

Answer: C

Question 51

Every positive integer > 0 can be expressed as a product of $2^n (n \geq 0)$ and another _____.

- A Prime number
- B Odd number
- C Both Even number and Prime number
- D Even number

Answer: B

Explanation:

Every positive integer > 0 can be expressed as a product of $2^n (n \geq 0)$ and another odd number (or odd numbers).

Likewise :

$$28 = 2^2 \times 7.$$

$$69 = 2^0 \times 3 \times 23.$$

So, B is correct choice.

Question 52

What is the chemical symbol for Sulphur ?

- A Su
- B Se
- C S
- D Si

Answer: C

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Question 53

A submarine emits a SONAR pulse which returns from an under water cliff in 2 s. If the speed of sound in sea water is 1500 m/s, how far away is the cliff?

- A 4000 m
- B 1500 m
- C 3000 m
- D 2000 m

Answer: B

Question 54

Which of the following cities was named the best city to live in India for the fifth consecutive year ?

- A Delhi
- B Chennai
- C Bengaluru
- D Hyderabad

Answer: D

Question 55

Which of the following statements are sufficient to find the age of A if:

- (i) The ratio of A and B's ages was 2 : 1 five years back.
- (ii) The ratio of age at present is 11 : 6.
- (iii) The ratio of age 20 years back was 7 : 2.

- A Any two of statements (i), (ii) and (iii)
- B Statement (i) only
- C Statement (iii) only
- D Statement (ii) only

Answer: A

Explanation:

If we take :

- (i) The ratio of A and B's ages was 2 : 1 five years back.
- (ii) The ratio of age at present is 11 : 6.

$$\begin{aligned} A_{\text{present age}-5} &= 2 \\ B_{\text{present age}-5} &= 1 \end{aligned}$$

or, $A_{\text{present age}} - 5 = 2B_{\text{present age}} - 10$

or, $A_{\text{present age}} - 2B_{\text{present age}} = 5 - 10 = -5 \dots \dots \dots (1)$

And, $\frac{A_{\text{present age}}}{B_{\text{present age}}} = \frac{11}{6} \dots \dots \dots (2)$

So, By solving (1) and (2) we can get their ages.

If we take :

(ii) The ratio of age at present is 11 : 6.

(iii) The ratio of age 20 years back was 7 : 2.

$$\frac{A_{\text{present age}}}{B_{\text{present age}}} = \frac{11}{6} \dots \dots \dots (1)$$

And, $\frac{A_{\text{present age}-20}}{B_{\text{present age}-20}} = \frac{7}{2} \dots \dots \dots (2)$

By solving (1) and (2) we can get their ages.

If we take :

(i) The ratio of A and B's ages was 2 : 1 five years back.

(iii) The ratio of age 20 years back was 7 : 2.

$$\frac{A_{\text{present age}-20}}{B_{\text{present age}-20}} = \frac{7}{2} \dots \dots \dots (1)$$

$$\frac{A_{\text{present age}-5}}{B_{\text{present age}-5}} = \frac{2}{1} \dots \dots \dots (2)$$

By solving (1) and (2) we can get their ages.

So, A is correct choice.

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Question 56

The backbone is also known as-

- A Ribs
- B Thorax
- C Spine
- D Femur

Answer: C

Question 57

Which of these representations does NOT indicate changes over a period of time ?

- A Bar graphs
- B Frequency polygon
- C Histogram
- D Pie chart

Answer: D

Question 58

If in a certain language 'EXIST' is coded as 'ESIXT', how is 'PLUTO' coded in that language ?

- A PULTO
- B PTULO
- C OLUTP
- D PTUOL

Answer: B

Explanation:

Letters in 2nd and 4th place have been interchanged in the code 'EXIST'.

Similarly, PLUTO = PTULO.

B is correct choice.

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Question 59

In a certain code, 'ABC DEF' is written as 'ZYX WVU'. How would 'PASS' be written in that code?

- A WZHH
- B KHZZ
- C KZHH
- D KMHH

Answer: C

Explanation:

Conversion Table

A = 1	K = 11	U = 21
B = 2	L = 12	V = 22
C = 3	M = 13	W = 23
D = 4	N = 14	X = 24
E = 5	O = 15	Y = 25
F = 6	P = 16	Z = 26
G = 7	Q = 17	
H = 8	R = 18	
I = 9	S = 19	
J = 10	T = 20	

ABC DEF :: ZYX WVU ==>

$$A + Z = 1 + 26 = 27, B + Y = 2 + 25 = 27, C + X = 3 + 24 = 27, D + W = 4 + 23 = 27, E + V = 5 + 22 = 27, F + U = 6 + 21 = 27.$$

Similarly,

PASS = KZHH.

C is correct choice.

Question 60

A sector of a circle of radius 21 cm and central angle 120° is folded into a cone. Radius of the cone thus obtained is:

- A 7 cm
- B 21 cm
- C 42 cm

D 7.5 cm

Answer: A

Explanation:

Circumference of Circle = $2\pi r = 2 \times \frac{22}{7} \times 21 = 132 \text{ cm}$.

So, Circumference of the sector is = $\left(\frac{120}{360} \times 132\right) \text{ cm} = 44 \text{ cm}$.

This is the circumference of base of the Cone extracted .

So, $2 \times \frac{22}{7} \times r_{\text{cone}} = 44$.

or, $r_{\text{cone}} = 7 \text{ cm}$.

A is correct choice.

Question 61

Which of the following will best complete the relationship given below ?

RPM : IGD :: XVS : ?

A NIL

B ILN

C OMJ

D JMO

Answer: C

Explanation:

$RPM : IGD \Rightarrow M + 3 = P, P + 2 = R \text{ and } D + 3 = G \text{ and } G + 2 = I$.

Similarly,

$SVX : OMJ. (OMJ \Rightarrow J + 3 = M, M + 2 = O.)$

C is correct choice.

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Question 62

On a certain sum, the Compound Interest and Simple Interest at some rate per cent are Rs.696.30 and Rs.660 respectively in 2 years. Find the sum.

A Rs.3600

B Rs.4000

C Rs.3300

D Rs.3000

Answer: D

Explanation:

Let say , sum is P and rate of interest is r %.

So, $P \times 2 \times \frac{r}{100} = 660$.

So, $\frac{Pr}{100} = 330 \dots \dots \dots (1)$

And, $P \left(1 + \frac{r}{100}\right)^2 - P = 696.30$

$$\text{or, } P \left(1 + \frac{r^2}{100^2} + \frac{2r}{100} - 1 \right) = 696.30$$

$$\text{or, } 100 \cdot \frac{r}{100} + \frac{2Pr}{100} = 696.30$$

$$\text{or, } 330 \cdot \frac{r}{100} + 2 \times 330 = 696.30$$

$$\text{or, } 330 \cdot \frac{r}{100} = 36.30$$

$$\text{or, } \frac{r}{100} = \frac{36.30}{330} = 0.11$$

$$\text{or, } r = 11.$$

Put this value in (1) :

$$\frac{11P}{100} = 330$$

$$\text{or, } P = 3000.$$

D is correct choice.

Question 63

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) Some players are spectators.
- 2) No player is a theatre.

Conclusions:

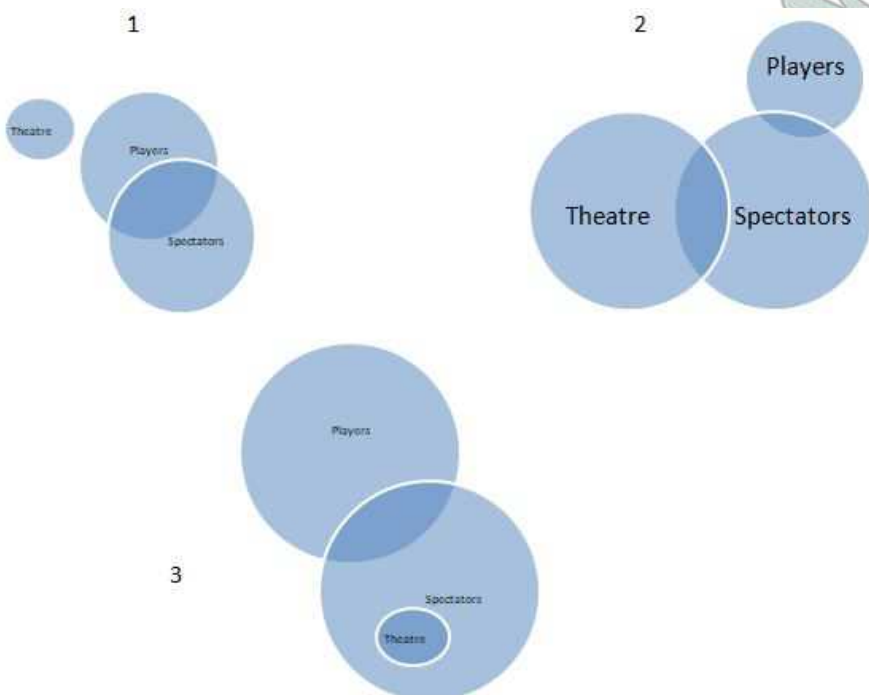
- I. No spectators are theatres.
- II. All spectators being theatres is a possibility.

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

Answer: C

Explanation:

From above statements We can infer the following diagram :



So, none of the conclusion can be extract .

So, C is correct choice.

Question 64

Simplify: $8\frac{1}{3} \div 3 - 10$ of $2\frac{1}{2} + 4$

A 9

B 1

C $\frac{7}{2}$

D $\frac{5}{4}$

Answer: A

Explanation:

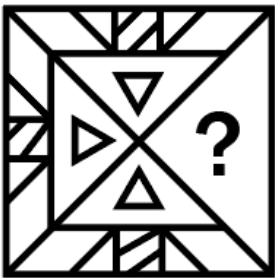
$$\begin{aligned} & 8\frac{1}{3} \div 3 - 10 \text{ of } 2\frac{1}{2} + 4 \\ &= \frac{25}{3} \div 3 - 10 \text{ of } \frac{5}{2} + 4 \\ &= \frac{25}{3} \times \frac{3}{5} - 4 + 4 \\ &= 5 - 4 + 4 \\ &= -4 + \frac{20+17}{4} \\ &= \frac{-1+37}{4} \\ &= \frac{36}{4} \\ &= 9. \end{aligned}$$

A is correct choice.

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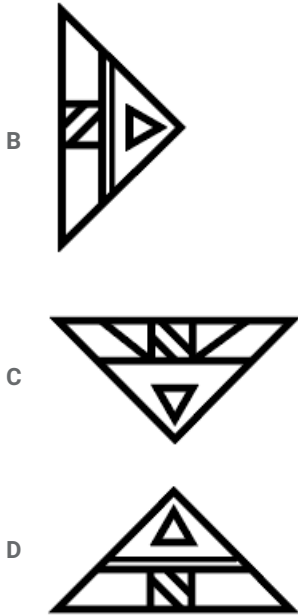
Question 65

Choose from the alternatives the figure that best completes the pattern given below.



A





Answer: C

Explanation:

If we rotate the image in option C clockwise onetime, we will get the rest of the part of image.

C is correct choice.

Question 66

Which mirror is used in a solar furnace?

- A Convex mirror
- B Plane mirror
- C Concave mirror
- D Spherical mirror

Answer: C

Question 67

If the potential difference across the ends of a conductor is doubled, what happens to the current flowing through it ?

- A It gets doubled
- B It gets halved
- C It gets quadrupled
- D It gets decreased

Answer: A

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Question 68

Which of the following bird's egg is the smallest?

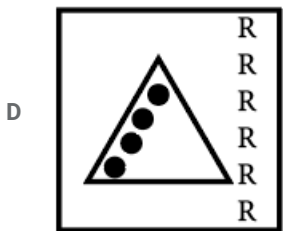
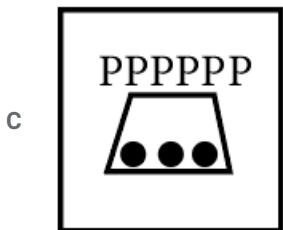
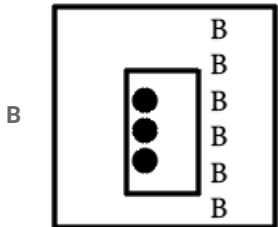
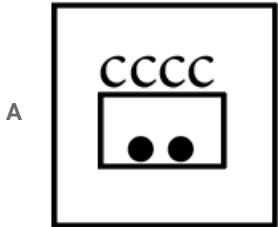
- A Hummingbird

- B Swallow
- C Nightingale
- D Sparrow

Answer: A

Question 69

Find the ODD one out from the given options.



Answer: D

Explanation:

The inside shape is a four side shape.

But shape inside of the Square in image D is a triangle (it is different from other options)

D is correct choice.

Question 70

If $\frac{(x-y)}{5} = \frac{(y-z)}{3} = \frac{(z-x)}{2}$, then which of these is TRUE?

- A $x^2 + y^2 + z^2 = 2xyz$
- B $x = y = z$
- C $xyz = 30$

D $x + y + z = 0$

Answer: B

Explanation:

$$\frac{(x-y)}{5} = \frac{(y-z)}{3} = \frac{(z-x)}{2}$$

$$3(x - y) = 5(y - z).$$

$$\text{or, } 3x - 3y = 5y - 5z$$

$$\text{or, } 8y = 3x + 5z \dots\dots\dots (1)$$

Again,

$$\frac{y-z}{3} = \frac{z-x}{2}$$

$$\text{or, } 2y - 2z = 3z - 3x$$

$$\text{or, } 2y + 3x = 5z. \text{ Put this value in (1)}$$

$$8y = 2y + 3x + 3x.$$

$$\text{or, } 6y = 6x.$$

$$\text{or, } y = x.$$

So, we can say that ,

$$\frac{x-x}{5} = \frac{z-x}{2} \text{ (Given equation)}$$

$$\text{or, } \frac{z-x}{2} = 0.$$

$$\text{or, } x = z.$$

$$\text{so, } x = y = z.$$

B is correct choice.

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Question 71

What constitutes the major part of the human body?

- A Fat
- B Water
- C Proteins
- D Plasma

Answer: B

Question 72

A man sold 18 cots for Rs.16800, gaining there by the cost price of 3 cots. Find the cost price of a cot.

- A Rs.650
- B Rs.750
- C Rs.700
- D Rs.800

Answer: D

Explanation:

No of cots = 18

Gain = 3 cots.

% percentage gain = $(3 * 100) / 18 = 16.66\%$.

Let X would be the CP of 18 cots.

So,

SP = X + 16.66% of X

1.166X = 16800

X = 14400. (Approx.)

CP per cot = $144000 / 18 = \text{Rs. } 800$.

D is correct choice.

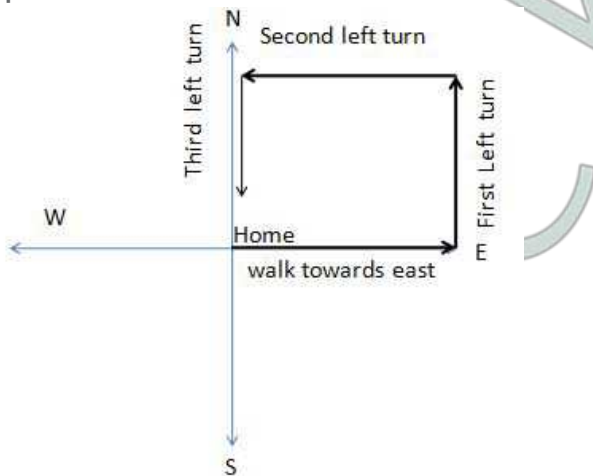
Question 73

Dinesh walked 6 km towards east from his home and took three times left turn. Which direction he is facing now?

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

Answer: A

Explanation:



So, He is facing Southward.

A is correct choice.

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Question 74

If $296 = x\%$ of 3700, then what is the value of 'x'?

- A 8
- B 11
- C 10

D 13

Answer: A

Explanation:

$$x\% \text{ of } 3700 = 296.$$

$$\text{or, } x\% = \frac{296}{3700} = 0.08.$$

$$\text{or, } x = 8\%.$$

A is correct choice.

Question 75

If $\sqrt{7} = 2.6457$ and $\sqrt{3} = 1.732$, then find the value of $\frac{1}{\sqrt{7}-\sqrt{3}}$

A 1.0844

B 1.944

C 1.0944

D 1.009

Answer: C

Explanation:

$$\frac{1}{\sqrt{7}-\sqrt{3}} = \frac{\sqrt{7}+\sqrt{3}}{7-3} = \frac{1}{4}(\sqrt{7}+\sqrt{3}) = \frac{1}{4}(2.6457+1.732) = 1.0944.$$

C is correct choice.

Question 76

Find the missing number in the following series.

2, 4, 3, (...), 5, 10

A 9

B 4

C 6

D 7

Answer: C

Explanation:

It's an alternate series of 2,3,5 and 4,6,10.

Where, $2 + 3 = 5$ and $4 + 6 = 10$.

C is correct choice.

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Question 77

Which of the following is basic in nature?

A H_2SO_4

B $NaOH$

C HCl

D HNO_3

Answer: B

Question 78

What is the scattering of light by particles in its path called as?

A C.V Raman effect

B Light effect

C Newton effect

D Tyndall effect

Answer: D

Question 79

One day Rajesh left home and cycled 10 km southwards, and then he turned right and cycled 5 km; again he turned right and cycled 10 km. Then again he turned left and cycled 10 km to reach point P. How many kilometers will he have to cycle to reach his home straight from point P?

A 25 km

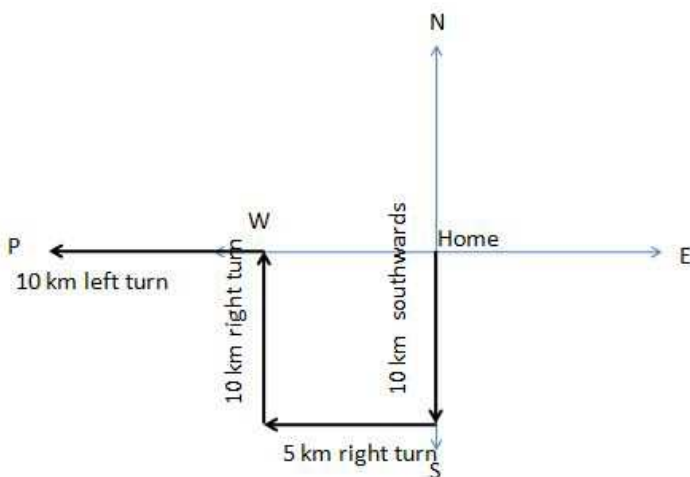
B 20 km

C 10 km

D 15 km

Answer: D

Explanation:



So, He had to walk for $(10+5)=15$ km to reach point P from Home.

D is correct choice.

Question 80

The ratio of Simple Interest earned by equal amounts in two different schemes at the same rate for 6 years and 10 years respectively is:

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

Answer: B

Question 81

In this question, a statement is given followed by three conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

$$J \geq E > K = T; D \leq E$$

Conclusions:

- I. $J > D$
- II. $J \geq D$
- III. $E > T$

- A Only conclusion I is true
- B Only conclusion I and III are true
- C Only conclusion I and II are true
- D Only conclusions II and III are true

Answer: D

Explanation:

$J \geq E$ and $E \geq D$ implies that $J \geq D$.

And, $E > K = T$ implies that $E > T$.

So, D is correct choice.

Question 82

What is the chemical formula of Plaster of Paris?

- A $CaSO_4$
- B $CaSO_4 \cdot 2H_2O$
- C $CaSO_4 \cdot \frac{1}{2}H_2O$
- D $CaSO_4 \cdot H_2O$

Answer: C

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Question 83

Express 5.025 as a fraction:

A $5\frac{1}{4}$

B $5\frac{203}{40}$

C $5\frac{1}{40}$

D $5\frac{1}{8}$

Answer: C

Explanation:

$$5.025 = 5 + 0.025 = 5 + \frac{25}{1000} = 5 + \frac{1}{40} = 5\frac{1}{40}.$$

C is correct choice.

Question 84

Read the following information carefully and answer the question given below.

Eight friends-P, Q, R, S, T, U, V and W are sitting around a square table in such a way that four of them sit at four corners of the square while four sit in the middle of each of the four sides. The ones who sit at the four corners face the center while those who sit in the middle of the sides face outside. P, who faces the center, sits third to the right of U. T, who faces the center, is not an immediate neighbour of U. Only one person sits between U and V. S sits second to the right of Q. Q faces the center. R is not an immediate neighbour of P. Who among the following is facing outside ?

A S

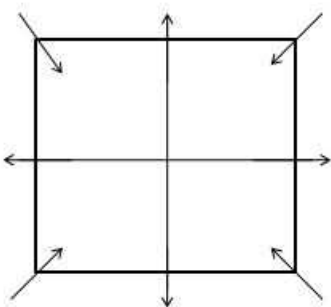
B Q

C P

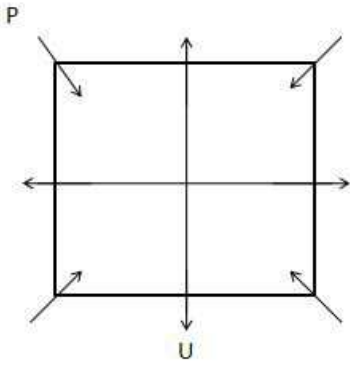
D V

Answer: D

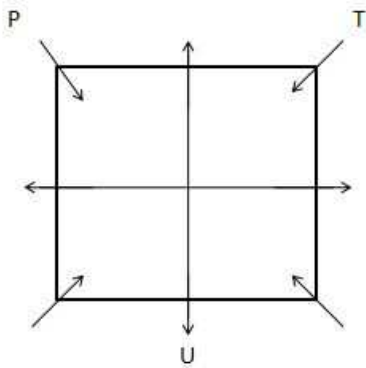
Explanation:



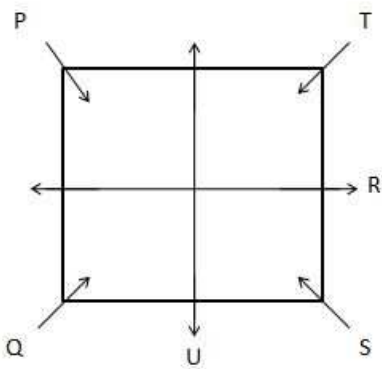
The ones who sit at the four corners face the center while those who sit in the middle of the sides face outside.



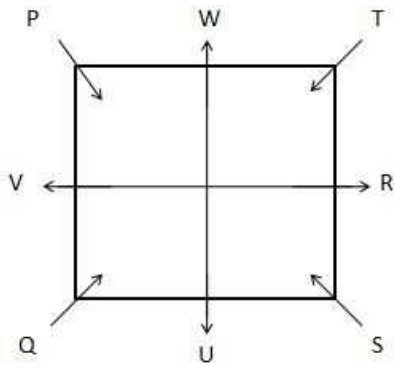
P, who faces the center, sits third to the right of U.



T, who faces the center, is not an immediate neighbour of U.



S sits second to the right of Q. Q faces the center. Means that Q is immediate right of U. R is not an immediate neighbour of P. So, R is between S and T.



Only one person sits between U and V.

V is facing outside.

D is correct choice.

Question 85

'Protection of Life And Personal Liberty' comes under the Article of the Indian Constitution.

- A 20
- B 21
- C 19
- D 22

Answer: B

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Question 86

A pipe is 3 times faster than another pipe Q and takes 32 minutes less than pipe to fill a cistern. In what time will the cistern be full if both pipes are opened together?

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

Answer: C

Explanation:

Let pipe A takes p min to fill

Then,

pipe Q takes 3p min to fill

$$\Rightarrow 3p - p = 32$$

$$\Rightarrow p = 16 \text{ min} \Rightarrow 3p = 48 \text{ min}$$

$$\text{Required, both pipes to fill} = \frac{(48 \times 16)}{(48 + 16)} \text{ min} = 12 \text{ min.}$$

C is correct choice.

Question 87

Each side of a square is increased by 20%. What is the percentage change in area?

- A 400%
- B 48%
- C 20%
- D 44%

Answer: D

Explanation:

Let say, side of square is a .

So, Area of Square before increase = a^2 .

After increase of side area become = $1.2a \times 1.2a = 1.44a^2$.

So, Percentage change in area is = $\frac{(1.44a^2 - a^2)}{a^2} = 0.44$ or 44%.

D is correct choice.

Question 88

Read the following information carefully and answer the question given below.

Eight friends—D, E, F, G, H, I, J and K are sitting around a circular table facing the centre. Each one of them likes different brands of bikes—Yamaha, TVS, Royal Enfield, Jawa, Harley-Davidson, Bajaj, Honda and Suzuki, but not necessarily in the same order.

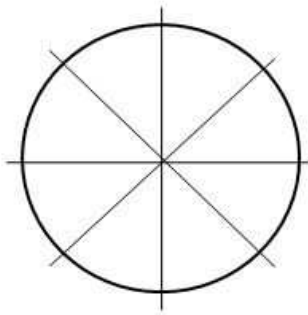
D sits third to the right of the person who likes Suzuki. D does not like Royal Enfield. H is not an immediate neighbour of K. F sits on the immediate right of the person who likes Royal Enfield. Neither D nor K likes Harley-Davidson or a TVS. The person who likes Harley-Davidson is not an immediate neighbour of the person who likes Suzuki. The person who likes Yamaha sits immediate left of H. The person who likes Yamaha is an immediate neighbour of the both persons who like Bajaj and Honda. Person who likes Honda sits fourth to the right of E. E does not like Harley-Davidson. I is not an immediate neighbour of D. J is not an immediate neighbour of the person who likes Yamaha and Suzuki. Only two people sit between the person who likes Honda and K. The persons who like Harley-Davidson and the TVS are immediate neighbours of each other.

Which of the following is CORRECTLY matched?

- A H - TVS
- B E - Jawa
- C J - Harley-Davidson
- D D - Bajaj

Answer: C

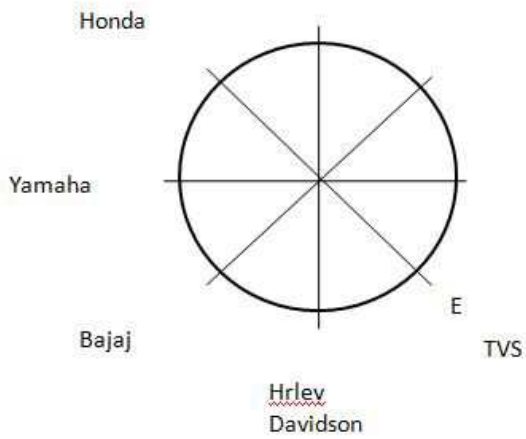
Explanation:



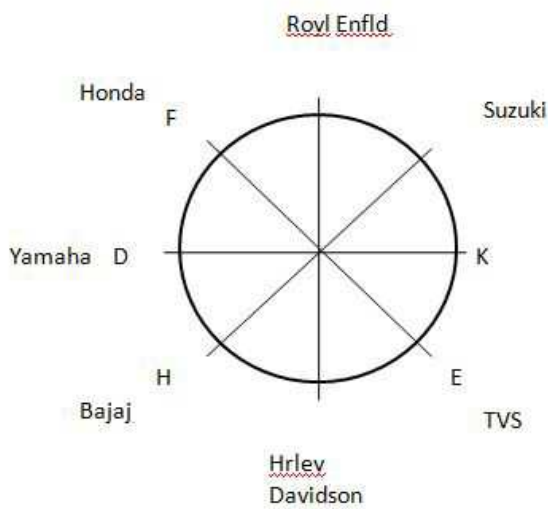
TVS

Harley
Davidson

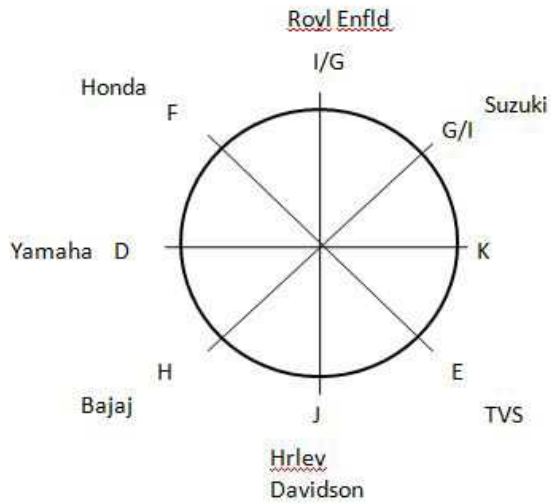
The persons who like Harley-Davidson and the TVS are immediate neighbours of each other.



Person who likes Honda sits fourth to the right of E.



D sits third to the right of the person who likes Suzuki. D does not like Royal Enfield. F sits on the immediate right of the person who likes Royal Enfield.



J is not an immediate neighbour of the person who likes Yamaha and Suzuki...

So, J- Harley-Davidson.

C is correct choice.

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Question 89

What does phototropism mean?

- A Union between unequal gametes
- B Movement of plants towards light
- C Movement of the plant towards water and moisture
- D Specialised protoplasm from which arises a cilia

Answer: B

Question 90

Which of these tennis tournaments is a team event?

- A Australian Open
- B Davis Cup
- C Wimbledon
- D German Open

Answer: B

Question 91

Simplify: $16.5 - 16.5 \div 2.2 + 3 \times 5$

- A 22.5
- B 33

C 12.25

D 24

Answer: D

Explanation:

$$16.5 - 16.5 \div 2.2 + 3 \times 5$$

$$= 16.5 - 7.5 + 3 \times 5$$

$$= 16.5 - 7.5 + 15$$

$$= 31.5 - 7.5$$

$$= 24.$$

So, D is correct choice.

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Question 92

The length of a rectangular plot is 20 m more than its breadth. If the cost of fencing the plot at Rs.26.50 per metre is Rs.5300, what is the length of the plot in metres ?

A 120 m

B 40 m

C 60 m

D 50 m

Answer: C

Explanation:

Let say, Breadth is b .

So, Length = $(b+20)$.

So, Perimeter of rectangular plot is $= 2(b + 20 + b) = (4b + 40) m$.

$$\text{So, } (4b + 40) \times 26.50 = 5300$$

$$\text{or, } 4b + 40 = \frac{5300}{26.5} = 200.$$

$$\text{or, } b + 10 = 50.$$

$$\text{or, } b = 40.$$

So, Length is 60 m.

C is correct choice.

Question 93

What is the minimum age required to be the President of India?

A 40 Years

B 37 years

C 35 Years

D 38 Years

Answer: C

Question 94

What is the probability of getting exactly one head when a coin is tossed twice?

- A $\frac{3}{4}$
- B $\frac{1}{2}$
- C $\frac{1}{4}$
- D 1

Answer: B

Explanation:

Total number of sample points $2^2 = 4$.

Sample spaces = {TT}, {HH}, {HT}, {TH}.

So, required probability is = $(2/4) = 1/2$.

B is correct choice.

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Question 95

Major Aerosol pollutant in jet plane emission is-

- A Sulphur dioxide
- B Carbon monoxide
- C Methane
- D Fluoro carbon

Answer: D

Question 96

Non-metals are bad conductors of electricity EXCEPT-

- A Sulphur
- B Graphite
- C Hydrogen
- D Nitrogen

Answer: B

Question 97

The nucleus of an atom contains-

- A Protons and neutrons
- B Protons
- C Neutrons

D Electrons

Answer: A

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Question 98

How much negative charge does an electron possess?

A $1.8 \times 10^{-19}C$

B $1.6 \times 10^{-19}C$

C $1.4 \times 10^{-21}C$

D $1.6 \times 10^{-23}C$

Answer: B

Question 99

In human body, cells contain -

A 21 pairs of chromosomes

B 22 pairs of chromosomes

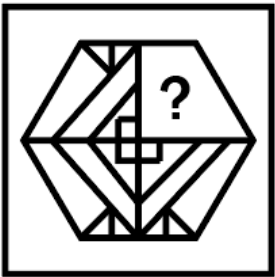
C 20 pairs of chromosomes

D 23 pairs of chromosomes

Answer: D

Question 100

Choose from the alternatives the figure that best completes the pattern given below.





Answer: D

Explanation:

Image in diagram D replicates the right option in the given diagram as the two lines are drawn conjugates the incomplete lines and the square in the middle completes it properly.

So, D is correct choice.

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