



RRB Group-D 11th Oct 2018-shift -1

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Instructions

For the following questions answer them individually

Question 1

A car falls off a ledge and drops to the ground in 0.7 s. (let $g = 10\text{ms}^{-2}$)

What is its speed on striking the ground?

A 9ms^{-1}

B 8ms^{-1}

C 4ms^{-1}

D 7ms^{-1}

Answer: D

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Question 2

In an electric circuit, Rheostat is often used to change the in the circuit.

A temperature

B resistance

C electric current

D potential difference

Answer: B

Question 3

Aamir Khan was honoured with the Best Actor Award in 2017 at:

A National Film Awards

B IIFA Awards

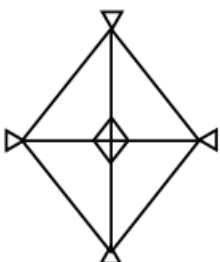
C Indian Film Festival

D Filmfare Awards

Answer: D

Question 4

Count the number of triangles in the figure.

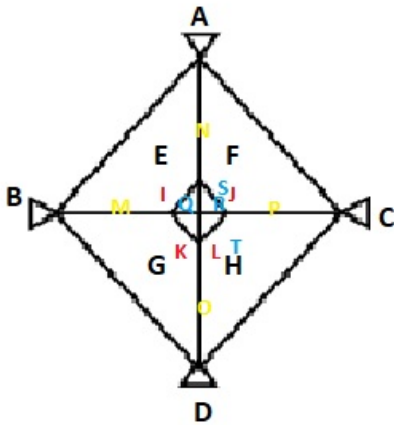


- A 28
- B 24
- C 26
- D 20

Answer: D

Explanation:

As we can see that given below figure-



There are 20 alphabets, which is denoted as each triangle.

that's means there are 20 triangle shape in this figure.

Hence option 'D' is correct.

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Question 5

Which tissue is responsible for transport of materials away from the root?

- A Ground tissue
- B Cambium
- C Phloem
- D Xylem

Answer: D

Question 6

On which day is 'World Hindi Day' (WHD) observed every year to mark the first anniversary of World Hindi Conference (WHC), which was held in 1975?

- A 5th September
- B 14th October
- C 10th January
- D 26th January

Answer: C

Explanation:

World Hindi Day is celebrated on **January 10** every year, marking the anniversary of first World Hindi Conference which was held in 1975 by then Prime Minister Indira Gandhi. World Hindi Day is celebrated on **January 10** every year, marking the anniversary of first World Hindi Conference which was held in 1975.

hence option 'C' is correct.

Question 7

₹ 1,080 invested for 3 months gave an interest of ₹ 27. The simple rate of interest per annum was :

- A 2.5%
- B 5%
- C 7.5%
- D 10%

Answer: D

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Question 8

Given below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement: "Mandarin oriental hotel has yet another new fan, Amitabh Bachchan," reads a hotel advertisement.

Assumptions:

- I. Mandarin Oriental is an expensive hotel.
- II. Mandarin Oriental is owned by Amitabh Bachchan.

- A Only assumption I is implicit
- B Both I and II are implicit.
- C Neither I nor II is implicit
- D Only assumption II is implicit

Answer: C

Question 9

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement: Our office is located in sixth floor. If a building has more than two floors, then it will have a lift.

Conclusions:

- I. Right from first floor to the last, each floor can be reached by a lift.
- II. Fifth floor do not have a lift.

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

Answer: A

Question 10

P 3 R I M J 3 Q % W @ / N \$ E 5 X Y 1 # 8

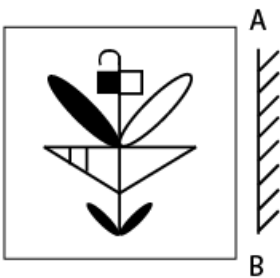
In the above series, the 6th term to the left of the 15th term from the left is :

- A W
- B %
- C 8
- D #

Answer: B

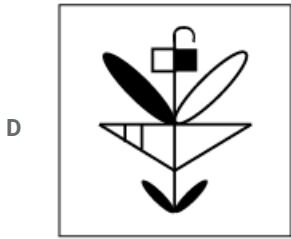
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Question 11



The mirror image of the above figure with respect to the line AB is:

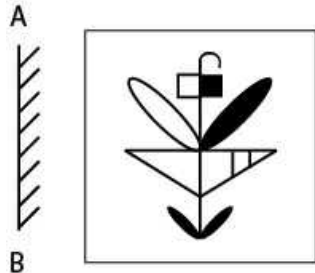
- A
- B
- C



Answer: C

Explanation:

According to the given figure-



Hence option 'C' is correct.

Question 12

If the edge of a cube is halved, then its volume reduces to times the actual volume.

A $\frac{1}{3}$

B $\frac{1}{4}$

C $\frac{1}{8}$

D $\frac{1}{2}$

Answer: C

Explanation:

we know that:

volume of cube = a^3

where, a is the side or length of edge of cube.

So, here

if the length of edges of cube is halved

=> side of cube = $a / 2$

=> volume = $(a/2)^3$

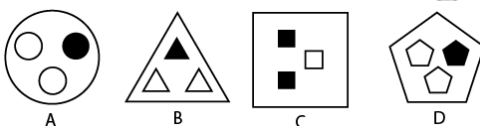
= $a^3 / 2^3$

= $a^3 / 8$

so, when the edge length is halved then the volume of cube become 1/8 of the volume before.

Hence option 'C' is correct.

Question 13



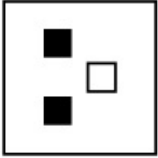
The figure that does not belong to the group is

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

Answer: C

Explanation:

According to the Question, on given figure-



we can easily see that all the given figures are different from option 'C' because in option c has two filled colour. Hence option 'C' is correct.

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Question 14

The time period of a vibrating body is 0.04s, then the frequency of the wave is.....

- A 25HZ
- B 20Hz
- C 250Hz
- D 200Hz

Answer: A

Question 15

In Modern Periodic Table, there is an anomaly when it comes to the position of..... because it can be placed either in group 1 or group 17 in the first period.

- A He
- B H
- C Li
- D Be

Answer: B

Question 16

What is the scientific term for the speed of an object moving in a definite direction?

- A Time
- B Acceleration
- C Velocity

D Motion

Answer: C

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Question 17

Who has been appointed as the Executive Director of Canara Bank?

- A Ravi Venkatesan
- B Murali Ramaswami
- C Mahesh kumar jain
- D Debashish Mukherjee

Answer: D

Question 18

The sample space of four coins tossed together is :

- A 8
- B 64
- C 32
- D 16

Answer: D

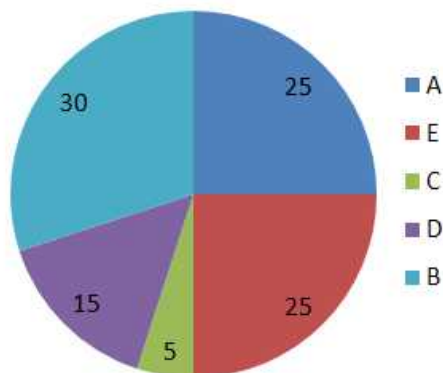
Explanation:

when we will tossed 4 coins in free space then possibility of the 4 coins is 4×4 times =16

Hence option 'D' is correct.

Question 19

The following pie diagram shows information about tyres manufacturing data from various companies in India during 2017. If the total tyres produced in India during 2017 was 1,80,000 units, how many units of tyres were produced by company 'D'?



- A 18000
- B 36000
- C 9000

D 27000

Answer: D

Explanation:

According to the question, on drawing Venn diagram-

$$1,80,000 \times \frac{15}{100} = 27000$$

Hence option 'D' is correct.

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Question 20

One way of dating fossils is by detecting the ratio of different of the same element in the fossil material.

A allotropes

B isotopes

C isobars

D isomers

Answer: B

Question 21

Two pipes, A and B, can fill a tank in X minutes and 6 minutes, respectively. If both the pipes are used together, then they take 1.5 minute to fill the tank. Find the value of X.

A 1 min

B 4 min

C 5 min

D 2 min

Answer: D

Explanation:

A takes x min and B takes 6 min , both takes 1.5 min

$$\text{so, } \frac{1}{x} + \frac{1}{6} = \frac{1}{1.5}$$

then the value of x=1 min

Hence option 'D' is correct.

Question 22

$551 \div 29 = 19$. Then $5.51 \div 0.0019 = ?$

A 2.9

B 290

C 2900

D 0.29

Answer: C

Explanation:

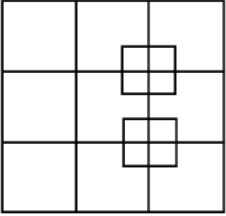
$$\frac{5.51}{0.0019} = 2900.$$

Hence option 'C' is correct.

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Question 23

Find the number of squares in the following figure.



- A 24
- B 20
- C 22
- D 26

Answer: A

Question 24

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statements:

- I. All snakes are poisonous.
- II. All poisonous are reptiles.

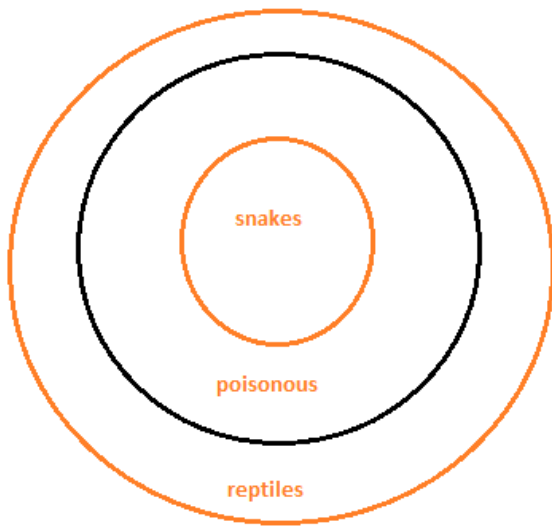
Conclusions:

- 1. All snakes are reptiles.
- 2. Some reptiles are poisonous.

- A Neither 1 nor 2 follows.
- B Conclusion 2 alone follows.
- C Both 1 and 2 follows.
- D Conclusion 1 alone follows.

Answer: C

Explanation:



both 1 and 2 are correct,
Hence option 'C' is correct.

Question 25

What is the HCF of 16, 72 and 28 ?

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

Answer: B

Explanation:

facotors of 16,72, 28

$$16 = 2 \times 2 \times 2 \times 2$$

$$72 = 2 \times 2 \times 3 \times 3$$

$$28 = 2 \times 2 \times 7$$

$$\text{comman factor} = 2 \times 2 = 4$$

Hence option 'B' is correct.

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Question 26

Sazar Baheti has become the first visually impaired Indian runner to complete the historic Boston Marathon. Where does Sam hail from?

- A Mumbai
- B Bengaluru
- C New Delhi
- D Chennai

Answer: B

Question 27

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

<table border="1"> <tr><td>≤ℓ</td><td>±*Ω</td></tr> <tr><td>/±\</td><td>±*</td></tr> </table>	≤ℓ	±*Ω	/±\	±*	<table border="1"> <tr><td>\±/</td><td>ℓ≤</td></tr> <tr><td>±*</td><td>Ω±*</td></tr> </table>	\±/	ℓ≤	±*	Ω±*	<table border="1"> <tr><td>±*</td><td>/±\</td></tr> <tr><td>±*Ω</td><td>≤ℓ</td></tr> </table>	±*	/±\	±*Ω	≤ℓ	?
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Ω±*	±*								
ℓ≤	\±/								
Ω±*	/±*								
ℓ≤	±								

A A

B B

C C

D D

Answer: C

Explanation:

According to the question, in given venn diagram-

Ω±*	±*
ℓ≤	\±/

All the given figures there are all symbols rotating in anti- clock wise direction option c's figure are represent the anti- clock wise drection.

Hence option 'C' is correct.

Question 28

Consider the given statements to be true even if they seem to be at variance with the commonly known facts and decide 8 which of the given conclusions logically follows from the statements.

Statements:

Some Penguins are Peacocks.

All the Peacocks are Snakes.

Conclusions:

1. Some penguins are snakes.

2. No peacock is a penguin.

A Either 1 or 2 follows.

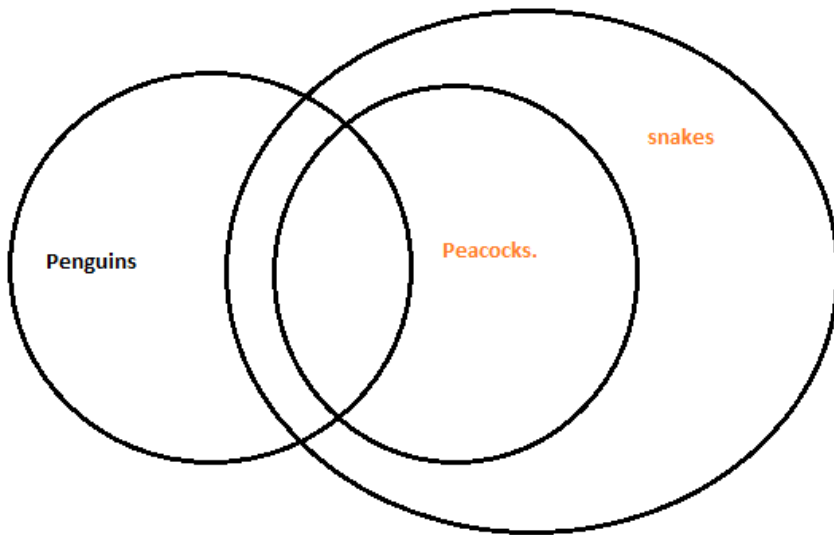
B Only 2 follows.

C Neither 1 nor 2 follows.

D Only 1 follows.

Answer: D

Explanation:



Hence option 'D' is correct.

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Question 29

Given below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Statement:

Amit can make students understand the complex mathematical problems in a easy way.

Assumptions:

I. Amit likes Mathematics.

II. Amit can teach physics well.

- A Both I and II are implicit.
- B Only assumption II is implicit
- C Neither I nor II is implicit
- D Only assumption I is implicit

Answer: D

Question 30

A sum of ₹ 110 is in the form of ₹ 2, ₹ 1 and 50 paise coins in the ratio of 1 : 2 : 3, respectively. How many 50 paise coins are there?

- A 20
- B 60
- C 40
- D 80

Answer: B

Question 31

'Real' is the currency of which country?

- A South Africa

- B Brazil
- C Ghana
- D Cambodia

Answer: B

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Question 32

Panu, Jiban and Jalil can complete a certain task individually in 30, 20 and 60 days, respectively. Jiban started work on the task and Panu and Jalil agreed to help Jiban on every third day. How many days will it take to complete the task?

- A 13
- B 12
- C 14
- D 15

Answer: D

Explanation:

efficiency	day	total work
2	panu 30	60
3	jiban 20	
1	jalil 60	

work started by jiban and every 3rd jiban and jalil join
 so work done by in this way
 3,3,(3+2+1) ,,,,,,

after every 3 day 12 unit work was done

hence total day taken = $\frac{60}{12} \times 3 = 15$

Hence option 'D' is correct.

Question 33

You are driving from point A to point B at a speed of 45km/hr. Your friend is driving from point B to point A at a speed of 53 km/hr. If the distance between the two points is 1029 km and both of you started at the same time. how many hours will it be before you pass each other ?

- A 9.5
- B 10
- C 11
- D 10.5

Answer: D

Explanation:

we make this question by relative velocity,

speed = 45+53=98km/h

and distance = 1029km

so time taken = $\frac{1029}{98} = 10.5$

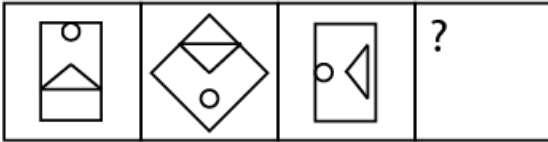
before crossing to each other,

Hence option 'D' is correct.

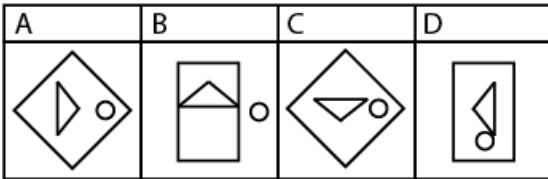
Question 34

Select the option figure that will complete the series of question figures.

Question Figures:



Option Figures:



A B

B C

C D

D A

Answer: D

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Question 35

In a garden of 42 trees, $\frac{3}{7}$ of them are Neem trees and the rest are Mango trees. Find the number of Mango trees.

A 16

B 24

C 20

D 18

Answer: B

Explanation:

we assume total number of tree is 7 then neem tree = 3 and mango tree = 4

$7 \rightarrow 42$

then $3 \rightarrow 18$

Hence option 'B' is correct.

Question 36

Where is GIFT city of India being planned by the government?

A Ahmedabad

- B Mysore
- C Hyderabad
- D Jaipur

Answer: A

Question 37

An object of mass 13 kg is moving with a uniform velocity of 5 ms^{-1} . What is the kinetic energy possessed by the object?

- A 187.5 J
- B 17.5 J
- C 162.5 J
- D 162.5 ms

Answer: C

Explanation:

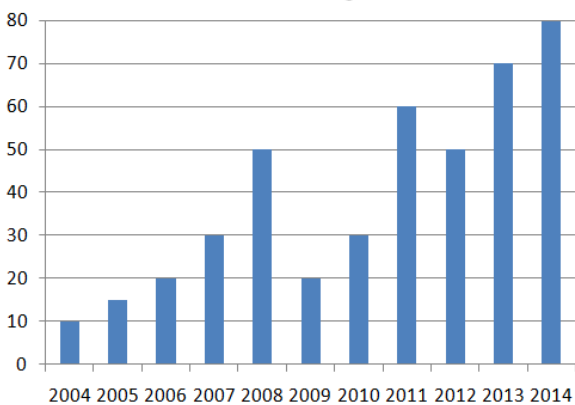
As we know that kinetic energy = $\frac{1}{2}mv^2 = \frac{1}{2} \times 13 \times 5 \times 5 = 162.5$

Hence option 'C' is correct.

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Question 38

The following bar graph shows information on the sales of the personal computers by the company "XYZ" for the last 10 years lakhs units



How many units of personal computers were sold by the company XYZ in 2011?

- A 60
- B 50
- C 80
- D 70

Answer: A

Explanation:

from bar graph ,in 2011 y axis clearly represents 60,

Hence option 'A' is correct.

Question 39

In which state of India 'Chhapar Mela' a social festival is organised

- A Punjab
- B Bihar
- C Odisha
- D Gujarat

Answer: A

Question 40

A company's CEO discusses the fund allocation with the CFO. This year the fund for new product development has increased by one third of the fund allocated last year. Last year ₹ 20,00,000 was allotted for various activities including product development that amounts to 30% of the activities. How much money is the CFO allocating for product development this year?

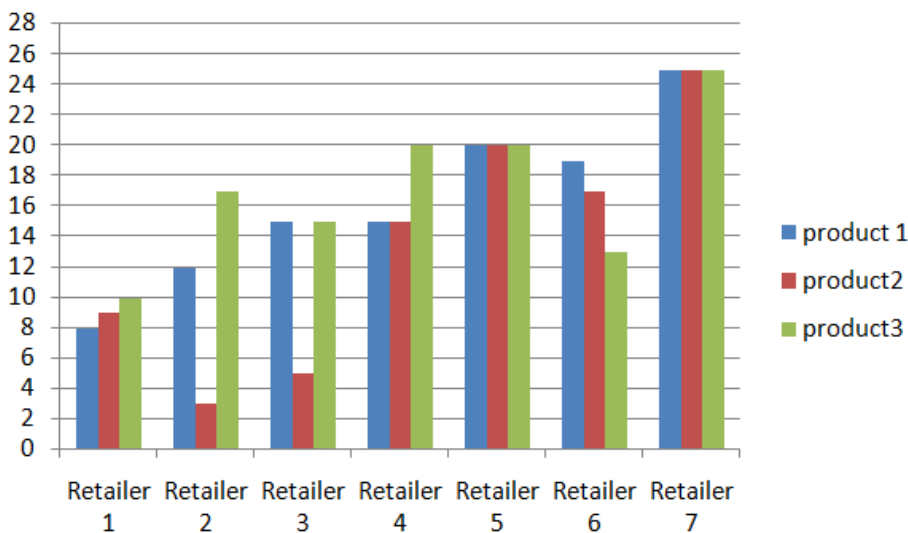
- A ₹ 8,00,000
- B ₹ 10,00,000
- C ₹ 12,00,000
- D ₹ 6,00,000

Answer: A

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Question 41

Based on the following graph. which retailer offers all the three products for less than ₹ 10 each?



Note: The X axis indicates price in rupees and Y axis represents the retailer

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

Answer: D

Explanation:

According to the question, in given venn diagram- we can see that Retailer 1's products are less than 10 Rs. Hence option 'D' is correct.

Question 42

Transfer of pollengrains from anther to the stigma of a flower is called

- A Pollination
- B Regeneration
- C Transpiration
- D Sexual reproduction

Answer: A

Question 43

Find the odd one out.



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

Answer: C

Explanation:

As we can see that all the given figures in this question are reflection themselves.



Hence we can see that figure D is not correct.

So, option 'C' is correct.

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Question 44

If $\tan \theta = \frac{a}{b}$ such that $\frac{a \sin \theta - b \cos \theta}{a \sin \theta + b \cos \theta} = \left(\frac{a^2 - b^2}{a^2 + b^2}\right)^k$, then k is?

- A 1

- B 2
- C 4
- D 8

Answer: A

Explanation:

$\frac{a \sin \theta - b \cos \theta}{a \sin \theta + b \cos \theta}$, divided by $\cos \theta$ in numerator and denominator,

then it becomes $\frac{a \tan \theta - b}{a \tan \theta + b}$, from question we know the value of $\tan \theta = \frac{a}{b}$

$$\frac{a \times \frac{a}{b} - b}{a \times \frac{a}{b} + b} = \frac{a^2 - b^2}{a^2 + b^2}$$

so $k = 1$

option A has value 1,

Hence option 'A' is correct.

Question 45

1200 soldiers in a fort had enough food for 28 days. After 4 days, some soldiers left the fort. Thus, food lasted for 32 more days. How many soldiers left?

- A 280
- B 300
- C 320
- D 290

Answer: B

Explanation:

$$1200 \times 28 - x \times 4 = 32 \times (1200 - x)$$

Question 46

In June 2017, NASA launched the world's lightest satellite which weighs 64 grams created by Chennai students. What is it called?

- A Kalam SAT
- B Cartosat-2C
- C IRNNS-1G
- D GSAT_6

Answer: A

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Question 47

Who invented a smart glove called TemBlue XT - TJay that predicts epileptic seizures?

- A Rajlaksu-ni Borthakur
- B Ankita Deka
- C Archana

D Chayanika Baruah

Answer: A

Question 48

As of March 2018, how many Indians have won Grand Slam tournaments in tennis?

A 6

B 7

C 5

D 4

Answer: D

Question 49

The age of a mother 10 years ago was thrice the age of her son. 10 years hence, the mother's age will be twice that of her son. The ratio of their present ages is :

A 12 : 5

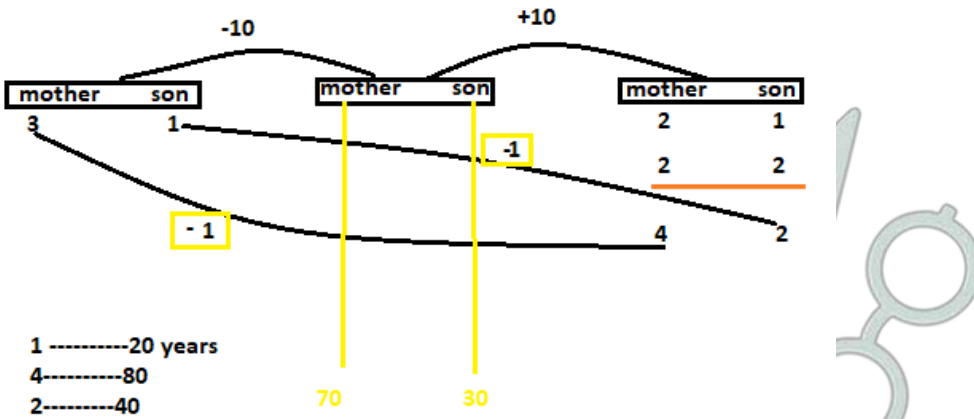
B 6 : 1

C 7 : 3

D 4 : 2

Answer: C

Explanation:



from above figure moter's age=70 and son's age is 30 , the ratio =7:3,

Hence option 'C' is correct.

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Question 50

Which of the following represents the equation for position-time relation?

A $2as = v^2 - u^2$

B $s = ut + \frac{1}{2}at^2$

C $v = u + at$

D $V = u + at$

Answer: B

Explanation:

Position time relation means ,relation between s=displacement and t=time,in option 'B' we can see the relation , hence option 'B' is correct.

Question 51

In a group of 100 students, every student studies 8 subjects and every subject is studied by 10 students. The number of subjects are :

A Exactly 80

B May be 50

C At most 30

D At least 90

Answer: A

Explanation:

every student studies 8 subjects, so 100 students studies $100 \times 8 \text{ subjects} = 800$ and every subject is studied by 10 students so number of subjects = $\frac{800}{10} = 80$,

Hence option 'A' is correct.

Question 52

For creating how many safe cities, has the Union Ministry of Women and Child Development approved projects worth ₹ 2,919 crore under Nirbhaya Fund?

A 8

B 12

C 5

D 15

Answer: A

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Question 53

Which of the following laws is associated with the heating effect of electric current?

A Joule's law

B Ohm's law

C Faraday's law

D Newton's law

Answer: A

Question 54

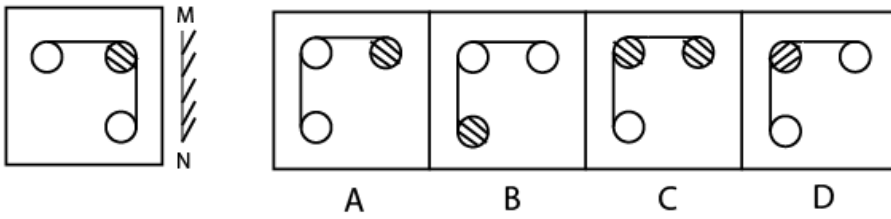
The work done is zero if there is no

- A Power
- B Momentum
- C Velocity
- D Displacement

Answer: D

Question 55

Choose the mirror image for the following figure.

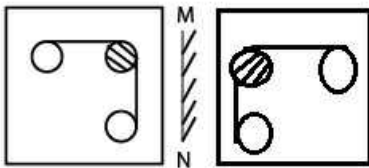


- A B
- B A
- C D
- D C

Answer: C

Explanation:

According to the given question-



Hence option 'C' is correct.

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Question 56

The force of gravitation between two bodies in the universe does NOT depend on :

- A the distance between them
- B the sum of their masses
- C the uavitational constant
- D the product of their masses

Answer: B

Question 57

The 17th Lok Sabha elections are proposed to be held in which year?

- A 2020
- B 2019
- C 2024
- D 2022

Answer: B

Question 58

The Black soil is also known as soil.

- A Bhangar
- B Humus
- C Crystalline
- D Regur

Answer: D

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Question 59

Which of the following sport is Yuzvendra Chahal related to?

- A Tennis
- B Cricket
- C Shooting
- D Hockey

Answer: B

Question 60

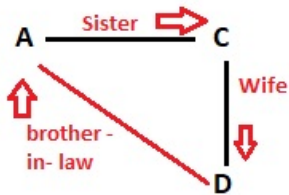
If A is the sister of C and C is the wife of D. How D is related to A?

- A Sister
- B Brother-in-law
- C Brother
- D Sister-in-law

Answer: B

Explanation:

According to the given question-



Hence option 'B' is correct.

Question 61

Find the next number in the series.

4, 9, 20, 43, ?

A 100

B 92

C 82

D 90

Answer: D

Explanation:

$$4 \times 2 + 1 = 9,$$

$$9 \times 2 + 2 = 20,$$

$$20 \times 2 + 3 = 43,$$

$$43 \times 2 + 4 = 90,$$

Hence option 'D' is correct.

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Question 62

Select the institution that does not belong to the group.

A NIT Warangal

B JIM Ahmedabad

C State Bank of India (SBI)

D IIT Mumbai

Answer: C

Question 63

10 men can finish painting a wall in 8 days. How many more men will be needed if the painting work is to be finished in 4 days?

A 8

B 5

C 10

D 20

Answer: C

Explanation:

$$M_1 \times D_1 = M_2 \times D_2$$

$$10 \times 8 = \text{men} \times 4$$

$$\text{men} = 20$$

ie 10 more man needed to complete the work,

Hence option 'C' is correct.

Question 64

The HCF of 156, 312 and 195 is :

A 39

B 3

C 78

D 13

Answer: A

Explanation:

factor of 156, 312 and 195 are,

$$156 = 2 \times 2 \times 3 \times 13$$

$$312 = 2 \times 2 \times 2 \times 3 \times 13$$

$$195 = 3 \times 5 \times 13$$

common factors are $3 \times 13 = 39$,

Hence option 'A' is correct.

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Question 65

Who is the incumbent Honourable Speaker of the Lok Sabha?

A Sumitra Mahajan

B Manohar Joshi

C Meira Kumar

D Somnath Chatterjee

Answer: A

Question 66

Pointing to a woman, Raghav said, "Her son is my daughter's uncle". How is the woman related to Raghav?

A Sister

B Mother

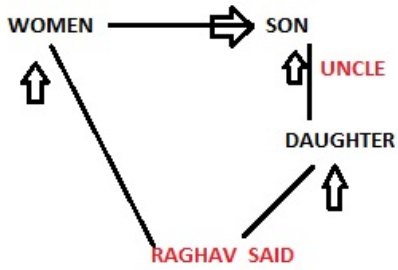
C Daughter

D Grandmother

Answer: B

Explanation:

According to given question -



Hence option 'B' is correct.

Question 67

The number of odd days in a NON leap year is :

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

Answer: A

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Question 68

Which one of the following is NOT linked to the cerebrum ?

- A It is a part of forebrain
- B It has two parts called cerebral hemispheres.
- C It forms the front, superior and lateral side of the brain
- D It is the largest part constituting 60% of the brain.

Answer: D

Question 69

Who is the manning director and CEO of Axis Bank as of 2018?

- A Chanda Kochhar
- B Arundhati Bhattacharya
- C Shikha Shanna
- D Sanjaya Sharma

Answer: C

Question 70

Which South Indian film stars have formally entered politics recently?

- A Vijay and Surya
- B Siddharth and Madhavan
- C Ajith and Shalini
- D Rajinikanth and Kainal Haasan

Answer: D

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Question 71

If the number $x3339$ is divisible by 11, what is the face value of x ?

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

Answer: C

Explanation:

By option- We put the option C, place of 'x'.

$$\frac{53339}{11} = 4849.$$

Hence option 'C' is correct.

Question 72

Mahavira is believed to be the last of the Tirthankaras.

- A 26
- B 22
- C 20
- D 24

Answer: D

Question 73

What comes next in the given series?

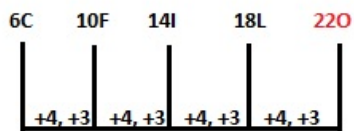
6C, 10F, 14I, 18L, ?

- A 22G
- B 22O
- C 20T
- D 22L

Answer: B

Explanation:

According to the given question,



Hence option 'B' is correct.

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Question 74

If 3 is added to both the numerator and the denominator, the fraction becomes $\frac{10}{11}$. When 4 is subtracted from both the numerator and the denominator of the same fraction, it becomes $\frac{3}{4}$. What is the value of the fraction?

- A $\frac{3}{5}$
- B $\frac{7}{8}$
- C $\frac{3}{4}$
- D $\frac{6}{13}$

Answer: B

Question 75

Which of the following plants is NOT a Thallophyta?

- A Spirogyra
- B Ulva
- C Riccia
- D Chara

Answer: C

Question 76

In which of the following classifications are the elements arranged in the order of their increasing atomic number?

- A The Modern Periodic Table
- B Mendeleev's Periodic Table
- C Newland's Law of Octaves
- D Dobereiner's Triads

Answer: A

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Question 77

The difference between the selling prices of a keyboard at losses 15% and 25% is ₹ 50. Then the cost price of a keyboard is :

- A ₹ 240
- B ₹ 330
- C ₹ 300
- D ₹ 500

Answer: D

Explanation:

difference between loss % is $25\% - 15\% = 10$, which is equal to 50,

$10\% \rightarrow 50$

$100\% \rightarrow 500$

Hence option 'D' is correct.

Question 78

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the 8 statement(s).

Statement :

Sound is produced when something vibrates. The vibrating body causes the medium around it to vibrate. Conclusions:

- I. By medium, they mean only Air
- II. Sound is produced by vibration

- A Only conclusion I follows
- B Both the conclusions follow
- C Only conclusion II follows
- D No conclusion follows

Answer: C

Question 79

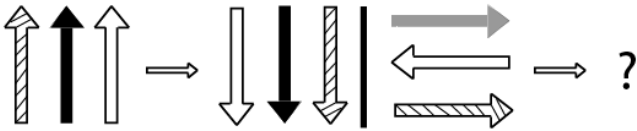
Which of the below allotropes of carbon is in the form of geodesic globe?

- A Fullerene
- B Carbon nanotube
- C Graphite
- D Diamond

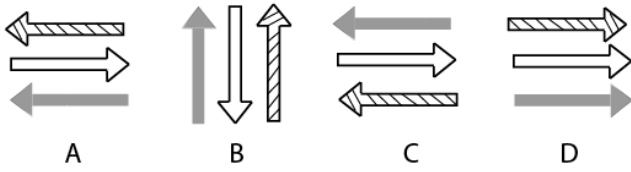
Answer: A

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Question 80



Which of the below picture correctly fits the above blank space(?) ?



A C

B A

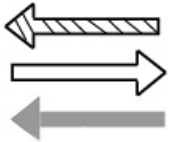
C B

D D

Answer: B

Explanation:

According to the question, on drawing venn diagram-



Picture A is correctly fits the blank space, all the arrow is opposite to their directions.

Hence option 'B' is correct.

Question 81

Which of the following energy varies with the height of an object?

A Nuclear energy

B Kinetic energy

C Chemical energy

D Potential energy

Answer: D

Question 82

The chemical name of is calcium sulphate hemihydrate.

A Baking powder

B Gypsum

C Baking soda

D Plaster of Paris

Answer: D

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Question 83

..... is least reactive element belonging to group 17

- A Bromine
- B Iodine
- C Chlorine
- D Fluorine

Answer: B

Question 84

The zeros of the cubic polynomial $2x^3 - x^2 - 2x + 1$ are a, b and c respectively. Find $ab + bc + ca = ?$

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

Answer: D

Explanation:

by hit and trail one zero is 1,

$$2x^3 - 2x^2 + x^2 - x + 1 = 0$$

$$2x^2(x-1) + x(x-1) - 1(x-1) = 0$$

$$(x-1)(2x^2 + x - 1) = 0$$

zero are 1, -2 and 1, which is the value of a, b, c

so $ab + bc + ca = -1$

Hence option 'D' is correct.

Question 85

Which of the following statements is/are true?

A. Rigidity: According to the type of matter, shape differs, depending upon location of particles. Eg, solids have definite shape while liquids acquire the shape of their container and gases, as such, don't have any shape.

B. Compressibility: It is the property of matter to allow a decrease in volume under high pressure and gases show this property.

- A Only B is true
- B A and B are both true
- C A and B are both false
- D Only A is true

Answer: A

Question 86

In which year did the Partition of Bengal take place?

- A 1910
- B 1902
- C 1903
- D 1905

Answer: D

Question 87

Which of the following has low density and low melting point?

- A Na
- B Fe
- C Cu
- D Au

Answer: A

Question 88

In case of hypermetropia, where is the image formed?

- A In front of the retina
- B On the retina
- C Behind the retina
- D On the cornea

Answer: C

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Question 89

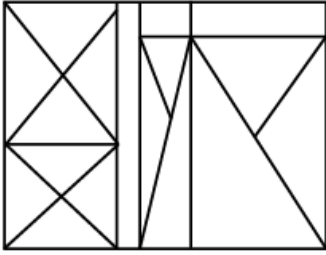
The natural colour of litmus is

- A red
- B pink
- C blue
- D purple

Answer: E

Question 90

How many triangles are there in the following figure?



- A 22
- B 27
- C 23
- D 24

Answer: B

Question 91

Medha sells her bag for ₹ 300 and loses ₹ 60. At what price must she sell the article to gain 15%?

- A 146
- B 172
- C 414
- D 516

Answer: C

Explanation:

C.P of bag is $300+60=360$

S.P for earning 15% profit = $\frac{360 \times 115}{100} = 414$

selling price is 414,

hence option 'C' is correct.

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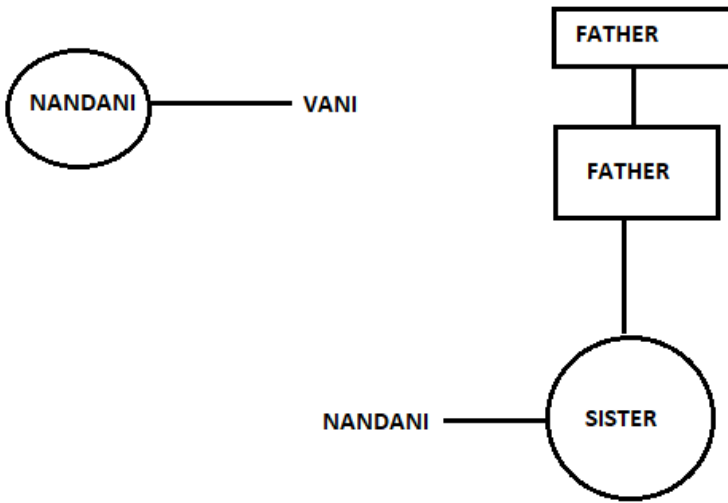
Question 92

Nandini is sister of Vani. How is Nandini's only sister's fathers father related to Vani?

- A Uncle
- B Cousin
- C Father
- D Paternal Grand father

Answer: D

Explanation:



From the above figure it's clear that relation between them,

Hence option 'D' is correct.

Question 93

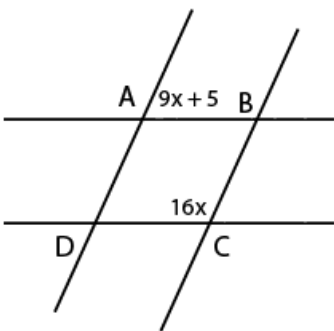
Supriya is playing chess with pallavi. If Supriya is facing North direction, in which direction Pallavi is facing considering the standard chess seating position?

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

Answer: C

Question 94

Find the measure of angle ABC (in degrees) in the parallelogram ABCD as shown in the given figure:



- A 68
- B 112
- C 102
- D 78

Answer: A

Question 95

The difference between a fraction and its reciprocal is $\frac{9}{11}$. If the cubes of both the fraction and its reciprocal are considered, what will be the difference between them?

- A $\frac{3996}{1331}$
- B $\frac{1331}{2538}$
- C $\frac{729}{1331}$
- D $\frac{2538}{1331}$

Answer: A

Question 96

Who invented the periodic table?

- A Marie Curie
- B Dmitri Mendeleev
- C Antoine Lavoisier
- D Louis Pasteur

Answer: B

Question 97

Samu needs 40% to pass. If he scores 190 marks: but still falls short by 10 marks, then what is the maximum number of marks he could have scored?

- A 400
- B 500
- C 450
- D 550

Answer: B

Explanation:

$$40\% \rightarrow (190+10)=200$$

$$1\% \rightarrow \frac{200}{40\%}$$

$$100\% \rightarrow \frac{200}{40\%} \times 100\% = 500$$

so maxm marks is 500,

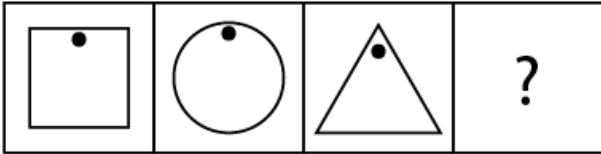
Hence option 'B' is correct.

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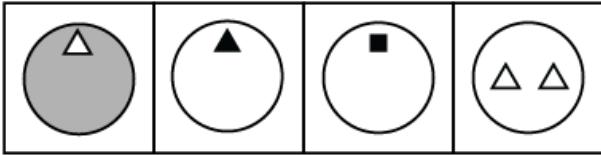
Question 98

Find the next figure for the given series:

Problem Figures:



Answer Figures:



A

B

C

D

A D

B C

C B

D A

Answer: C

Question 99

The atomic mass of Calcium is :

A 24

B 40

C 23

D 32

Answer: B

Question 100

What is the value of X ?,if $7580 - X = 3440$

A 4150

B 5140

C 4130

D 4140

Answer: D

Explanation:

$$7580 - x = 3440$$

$$x = 7580 - 3440 \\ = 4140 \text{ Ans.}$$

Here option 'D' is correct.

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