



RRB JE 28th June 2019 Shift-3

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Instructions

For the following questions answer them individually

Question 1

Which human organ weighs about 1.4 kg and 0.85 litres of blood passes through it every minute?

- A Heart
- B Brain
- C Kidneys
- D Lungs

Answer: B

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Question 2

What is the human ear's normal audible range?

- A 20 Hz to 20 kHz
- B 25 Hz to 1500 Hz
- C 40 Hz to 4000 Hz
- D 35 Hz to 3400 Hz

Answer: A

Question 3

Who prepared the first effective vaccine against polio?

- A John Gibbson
- B Jonas E.Salk
- C Robert Edwards
- D Louis Pasteur

Answer: B

Question 4

If two numbers with HCF 9 are in the ratio 5 : 7, what is their difference?

- A 24
- B 8
- C 18
- D 12

Answer: C

Explanation:

let A and B be the number

$$A:B = 5:7$$

hcf = 9, the two numbers will be multiplies of 5 and 7

$$\text{so } A = 5 \times 9 = 45$$

$$B = 7 \times 9 = 63$$

so difference in the number = $63 - 45 = 18$

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Question 5

Where is the Kanha Tiger Reserve located?

- A Odisha
- B Maharashtra
- C Karnataka
- D Madhya Pradesh

Answer: D

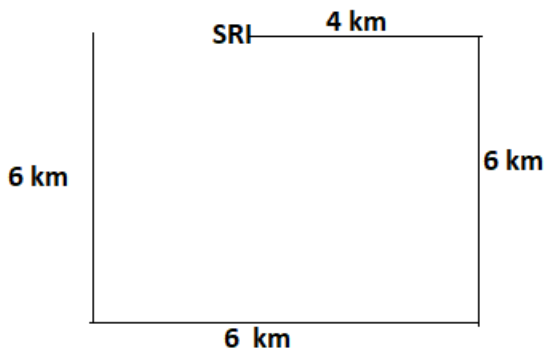
Question 6

Sri walked 4 km towards east from home to school, and he turned three times right side of 6 km respectively. What is the distance between his home and the school?

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

Answer: C

Explanation:



The distance between his home and the school is 2 km

Question 7

Which of the following is a micronutrient?

- A Protein
- B Carbohydrate
- C Fat
- D Iodine

Answer: D

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Question 8

Which of the following is the lightest material on earth?

- A Aerographene
- B Aerographite
- C Carbyne
- D Diamond

Answer: A

Question 9

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

Statements:

- 1) No car is ball.
- 2) No ball is table.

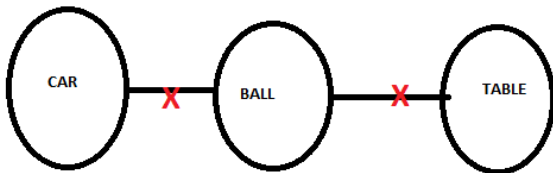
Conclusions:

- I. No car is table.
- II. All tables are cars.

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

Answer: C

Explanation:



I. No car is table.

yes, no car is table as shown in figure

II. All tables are cars.

no, no tables are car as shown

so, Neither conclusion I nor II follows

Question 10

Where is the head office of Export Promotion Council for Handicrafts (EPCH) located?

- A Varanasi
- B Kolkata
- C New Delhi
- D Jaipur

Answer: C

Question 11

Find the volume of a cylinder whose radius is one-third the radius of a circle of area 1386 cm^2 , and height is twice its radius.

- A 3562 cm^3
- B 3246 cm^3
- C 2156 cm^3
- D 2584 cm^3

Answer: C

Explanation:

Area of the circle = $\pi \times r^2$

$$1386 \text{ cm}^2 = \pi \times r^2$$

$$r = 21 \text{ cm}$$

cylinder

$$R = \frac{1}{3}r$$

$$H = 2r$$

area of cylinder = $\pi \times r^2 \times h$

$$\pi \times \left(\frac{1}{3}r\right)^2 \times 2r$$

$$\pi \times \left(\frac{1}{3}21\right)^2 \times 2 \times 21$$

$$= 2156 \text{ cm}^3$$

Question 12

In a certain code language, 'kew xas huma deko' means 'she is eating apples'; 'kew tepo qua' means 'she sells toys' and 'sul lim deko' means 'I like apples'. Which word in that language means 'she and apples'?

- A kew and lim
- B kew and deko
- C xas and kew
- D xas and deko

Answer: B

Explanation:

'kew xas huma deko' means 'she is eating apples'; 'kew tepo qua' means 'she sells toys' and 'sul lim deko' means 'I like apples'

'kew xas huma deko' = 'she is eating apples'

'kew tepo qua' = 'she sells toys'

'sul lim deko' means 'I like apples'

kew is same in (1)(2) sentence which is equal to 'she'

deko is same in (1)(3) sentence which is equal to 'apples'

so ans is 'kew' and 'deko'

Question 13

Find the ODD one out from the given options.

- A 25 - 81
- B 36 - 100
- C 16 - 64
- D 49 - 169

Answer: D

Explanation:

All are the squares of the number

$$25-81 = 5^2 - 9^2 = 9 - 5 = 4$$

$$36-100 = 6^2 - 10^2 = 10 - 6 = 4$$

$$16-64 = 4^2 - 8^2 = 8 - 4 = 4$$

$$49-169 = 7^2 - 13^2 = 13 - 7 = 6$$

all the first three has same difference

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Question 14

$\frac{2}{5}$ of a set of notebooks are sold on the first day. $\frac{3}{4}$ of the remaining got sold on the second day. If 75 notebooks remain still, how many notebooks were kept for sale?

- A 750
- B 500
- C 1000
- D 250

Answer: B

Explanation:

let no of books be X

$\frac{2}{5}$ th were sold

$$X \times \frac{2}{5} = \frac{2X}{5}$$

ie $\frac{2X}{5}$ books were sold from X

$$\text{remaining } X - \frac{2X}{5} = \frac{3X}{5}$$

from $\frac{3X}{5}$ books $\frac{3}{4}$ were sold

$$\frac{3X}{5} \times \frac{3}{4} = \frac{9X}{20}$$

$\frac{9X}{20}$ books were sold from $\frac{3X}{5}$

$$\text{remaining } \frac{3X}{5} - \frac{9X}{20} = \frac{3X}{20} \text{ books}$$

given $\frac{3X}{20}$ is equal to 75 books

$$\frac{3X}{20} = 75$$

$$X = 500$$

Question 15

Simplify: $0.05 \times 0.02 \times 10$

- A 0.001
- B 0.01
- C 1.01
- D 1.1

Answer: B

Explanation:

$$0.05 \times 0.02 \times 10$$

$$0.05 \times 0.02 \times 10$$

$$5 \times 2 \times 10 = 100$$

there are 4 no after decimal

so no. is $0.0100 = 0.01$

Question 16

The sources of energy which have accumulated in nature over a very long period of time and which cannot be replaced quickly when exhausted are called-

- A Nonrenewable source of energy
- B Alternative source of energy
- C Inexhaustible source of energy
- D Renewable source of energy

Answer: A

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Question 17

Scurvy, the symptoms of which include bleeding gums, may be prevented by adding _____ to the diet.

- A Cholesterol
- B Protein
- C Vitamin C
- D Vitamin A

Answer: C

Question 18

The type of plant cells found in major types of plant tissues is/are-

- A All of the options
- B Dermal

C Vascular

D Ground

Answer: A

Question 19

Ghoomaris a traditional as well as an enthusiastic folk dance of-

A Gujarat

B Rajasthan

C Kerala

D Sikkim

Answer: B

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Question 20

The symbol of mole in SI units is-

A mg

B g

C mol

D kg

Answer: C

Question 21

Choose the pair which shows the same relationship as in the pair given below.

Earth : Sun

A Cosmos : Space

B Moon : Earth

C Sun : Galaxy

D Mars : Jupiter

Answer: B

Explanation:

Earth : Sun

Earth revolve around the Sun

similarly

Moon revolve around the Earth

cosmos doesnt revolve around space

Sun is present in Galaxy it doesnt revolve around anything

Mars and Jupiter both are planet . Mars doesnt revolve around Jupiter

Question 22

Two trains one from station P to Q, the other from station Q to P start simultaneously with speeds 80 km/h and 95 km/h. If they meet after 12 hours, what is the difference between the distances covered by them?

- A 15 km
- B 2100 km
- C 180 km
- D 200 km

Answer: C

Explanation:

let the distance between the train = D km

Relative speed by the two train = $(95 - 80)\text{km/hr} = 15\text{ km/hr}$

time taken to meet = $\frac{D}{15}$

12 hr = $\frac{D}{15}$

D = 180 km

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Question 23

If the sum of two numbers is 13 and the sum of their squares is 97, what is their product?

- A 72
- B 84
- C 110
- D 36

Answer: D

Explanation:

$$(A + B)^2 = A^2 + B^2 + 2 \times A \times B$$

this is a algebraic identity we will use this in solving question

given

$$A + B = 13$$

$$A^2 + B^2 = 97$$

so

$$(A + B)^2 = A^2 + B^2 + 2 \times A \times B$$

$$(13)^2 = 97 + 2 \times A \times B$$

$$169 = 97 + 2 \times A \times B$$

$$36 = A \times B$$

Question 24

What causes the 'Mad cow' disease in cattle?

- A Protozoa
- B Meat and bone meal feed
- C Bacteria
- D Virus

Answer: B

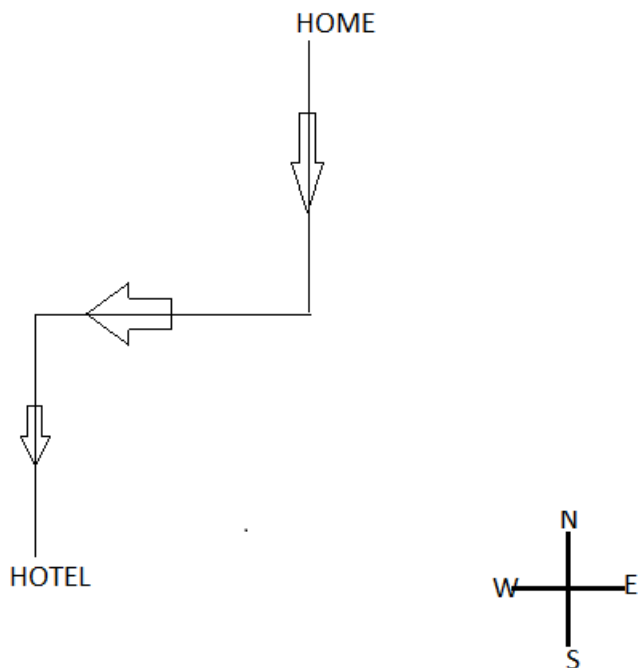
Question 25

A boy starts from his home northward in order to go to a hotel. He took right turn and took left to reach the hotel. Which direction is the hotel facing?

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

Answer: A

Explanation:



Wrong direction

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Question 26

Which of the following elements possesses the property of catenation?

- A Uranium
- B Carbon
- C Helium
- D Hydrogen

Answer: B

Question 27

Who was the first Chief Minister of Uttarakhand?

- A Narayan Dutt Tiwari
- B B.C. Khanduri
- C Bhagat Singh Koshiyari
- D Nityanand Swami

Answer: D

Question 28

If $\frac{p}{b-c} = \frac{q}{c-a} = \frac{r}{a-b}$, then find $p + q + r$

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

Answer: C

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Question 29

Birbal was a member of which Mughal Emperor's court?

- A Shah Jahan
- B Humayun
- C Akbar
- D Babur

Answer: C

Question 30

Three taps A, B and C can fill a tank in 12, 15 and 20 hours respectively. Tap A is open all the time and taps B and C are open for one hour each alternately. In how many hours will the tank be full?

- A 7 hours

- B 6 hours
- C 7.5 hours
- D 8 hours

Answer: A

Explanation:

A fill the tank = 12 hrs

B fill the tank = 15 hrs

C fill the tank = 20 hrs

Total work done = LCM (12,15,20)= 60

$$\text{A's efficiency} = \frac{60}{12} = 5$$

$$\text{A's efficiency} = \frac{60}{15} = 4$$

$$\text{C's efficiency} = \frac{60}{20} = 3$$

$$\text{Tank will be filled} = \frac{60}{12} = 4 \text{ hours}$$

Tap A is open all the time and taps B and C are open for one hour each alternately

so

as we know that ,

efficiency multiplied by time = work

here tap A open for T time , meanwhile tap B And C open alternatively

$$5 \times T + 4 \times \left(\frac{T}{2}\right) + 3 \times \left(\frac{T}{2}\right) = 60$$

$$T = 7 \text{ hours}$$

Question 31

In banana, which of the following nutrients is present the highest amount?

- A Potassium
- B Protein
- C Niacin
- D Riboflavin

Answer: A

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Question 32

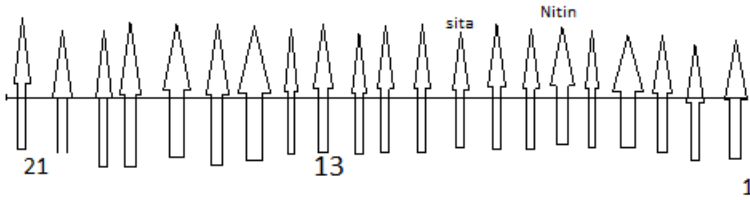
In a row of 21 children facing North, Nitin is third to the right of Sita who is ninth from the right end of the row. What is Nitin's position from the left end?

- A 16th
- B 15th
- C 12th
- D 6th

Answer: A



Explanation:



16th from the left end

Question 33

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

Statements:

- 1) Some houses are chairs.
- 2) All windows are doors.
- 3) All houses are windows.

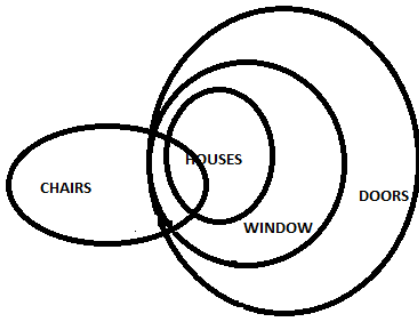
Conclusions:

- I. Some doors are windows.
- II. Some chairs are houses.
- III. Some windows are chairs.

- A All conclusions follow
- B Only conclusion III follows
- C Only conclusion I follows
- D Only conclusion II follows

Answer: A

Explanation:



I. Some doors are windows.

ALL window are doors so, some doors are also window

II. Some chairs are houses

yes, as shown in figure.

III. Some windows are chairs.

yes, as shown in figure.

so, All conclusions follow

Question 34

A strong acid in solution is _____.

- A Mostly molecules
- B Mostly ions
- C Both molecules and ions
- D Mostly water

Answer: B

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Question 35

Which country will host the Olympics 2020?

- A China
- B USA
- C Brazil
- D Japan

Answer: D

Question 36

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

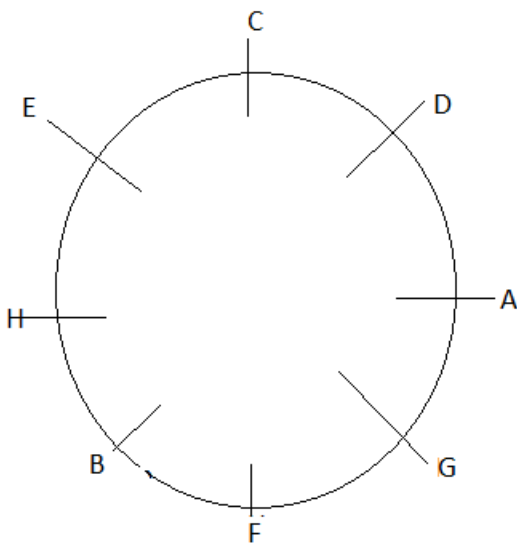
A, B, C, D, E, F, G and H are playing a game standing in a circle facing outwards. C is neither the neighbour of A nor of G. D is the neighbour of A but not of H. E is the neighbour of H and is third to the right of F. B is the neighbour of F and fourth to the left of D.

Who among the following stands to the immediate right of G?

- A H
- B B
- C F
- D E

Answer: C

Explanation:



All are facing outside

F is the immediate right of G

Question 37

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

A, B, C, D, E, F, G and H are 4 married couples sitting in a circle facing the center. The professions of the males within the group are Lecturer, Lawyer, Doctor and Engineer. Among the males D (the Lawyer) and H (the Engineer) are sitting together. Each man is seated beside to his wife. G, the wife of the Lecturer is seated second to the right of H, and F is seated between G and H. B, the wife of the Doctor, is seated to the immediate left of the Lawyer's wife. C is not the doctor. E is a male, and A is a female

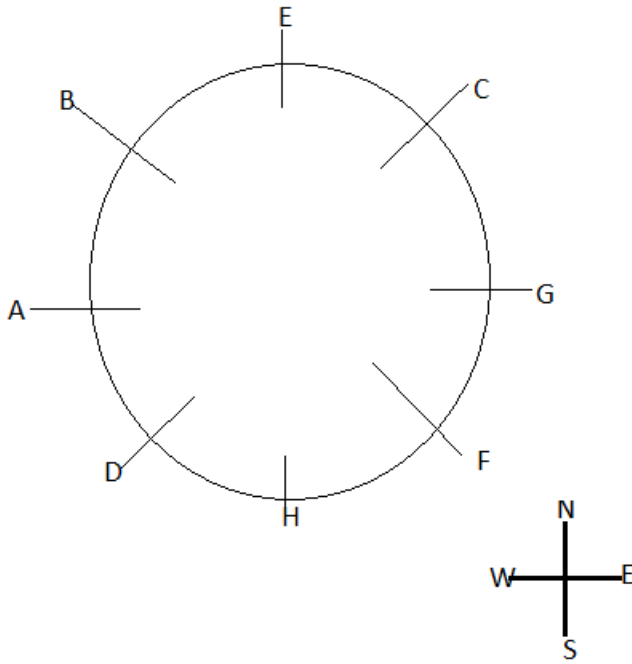
Who among the following is the wife of the lawyer?

- A A
- B B
- C F

D G

Answer: A

Explanation:



D - Lawyer

A - Lawyer's wife

E - Doctor

B - Doctor's wife

C - Lecturer

G - Lecturer's wife

H - Engineer

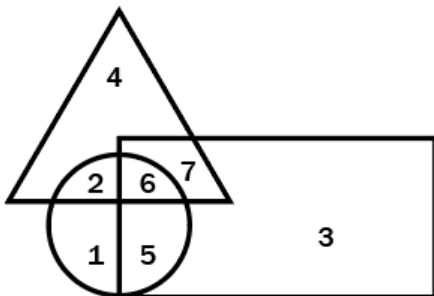
D - Engineer's wife

so, A is the wife of the lawyer

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Question 38

In the given figure, the circle represents Arctic Ocean, triangle represents Ocean, and rectangle represents Atlantic Ocean. Which region represents Ocean and Atlantic Ocean but not Arctic Ocean?



A 2

- B 5
- C 7
- D 6

Answer: C

Explanation:

the circle represents Arctic Ocean = 1

triangle represents Ocean = 4

The rectangle represents Atlantic Ocean = 3

region represents Ocean and Atlantic Ocean = combination of Triangle and Rectangle = 6 OR 7

region represents Ocean and Atlantic Ocean but not Arctic Ocean = combination of Triangle and Rectangle but not CIRCLE = 7

Question 39

When was 'World Earth Day' observed?

- A April 22
- B February 22
- C March 22
- D January 22

Answer: A

Question 40

In all the electric appliances like electric iron, toasters, electric kettle, hair dryers etc, which of the following principles is involved?

- A Resistance in circuits
- B Current passing in series
- C Heating effect of current
- D Generation of electricity

Answer: C

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Question 41

Two pipes P and Q can fill a cistern in 18 and 24 minutes respectively. Both pipes are opened, but after some time, the slower pipe is closed. The cistern gets filled in 12 minutes from the start. When is the slower pipe closed?

- A After 9 minutes
- B After 8 minutes
- C After 10 minutes
- D After 6 minutes

Answer: B

Explanation:

P fill the cistern = 18 min

Q fill the cistern = 24 min

Total work done = LCM (18,24) = 72

P's efficiency = $\frac{72}{18} = 4$

Q's efficiency = $\frac{72}{24} = 3$

Tank will be filled = $\frac{72}{7}$ hours

Tap P is open for 12 min and taps Q closed after some time

so

as we know that ,

efficiency multiplied by time = work

$$4 \times 12 + 3 \times T = 72$$

T = 8 min

Question 42

Find the odd one out from the given options.

- A Ice
- B Water
- C Steam
- D Air

Answer: D

Explanation:

Ice = Ice is the solid form of water

Water

Steam = Steam is gas form of water

Air = Air is not any form of Water

Question 43

Mycology is related to the study of-

- A Virus
- B Fungi
- C Human cells
- D Bacteria

Answer: B

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Question 44

The sum of three consecutive odd numbers is 20 more than the first of these numbers. Find the largest of these numbers.

- A 9

B 11

C 7

D 13

Answer: B

Question 45

To how many carbon atoms is each carbon atom bonded in diamond ?

A Two

B Three

C Four

D Five

Answer: C

Question 46

Three pipes P, Q and R can fill a tank in 30 minutes, 20 minutes and 10 minutes. When the tank is empty, all three pipes are opened while they discharge three chemical solutions S, T and U respectively. What is the proportion of solution U in the contents in the tank after 3 minutes?

A $\frac{6}{11}$

B $\frac{4}{11}$

C $\frac{5}{11}$

D $\frac{7}{11}$

Answer: A

Explanation:

P filled the tank = 30 min

Q filled the tank = 20 min

R filled the tank = 10 min

work done = lcm (30,20,10)= 60 min

P's efficiency = $\frac{60}{30} = 2$

Q's efficiency = $\frac{60}{20} = 3$

R's efficiency = $\frac{60}{10} = 6$

total time taken by all the pipes to fill the tank = $\frac{60}{11}$ min

in 1 min this much part of tank is filled = $\frac{11}{60}$

in 3 min this much part of tank is filled= $\frac{11}{60} \times 3$

$\frac{11}{20}$

part of tank filled by pipe C = $\frac{1}{10} \times 3$

so required proportion = $\frac{\frac{3}{10}}{\frac{11}{20}}$ min

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Question 47

Complete the series.

4, 7, 12, 19, (...)

- A 26
- B 27
- C 28
- D 29

Answer: C

Explanation:

4, 7, 12, 19, (...)

addition of Prime no.

$$4 + 3 = 7$$

$$7 + 5 = 12$$

$$12 + 7 = 19$$

$$19 + 9 = 28$$

28 is a no.

Question 48

If '+' means '-', '-' means '×' and '×' means '÷', then $15 - 3 + 10 \times 5 + 5 = ?$

- A 48
- B 5
- C 38
- D 52

Answer: C

Explanation:

'+' means '-'

-' means '×'

and '×' means '÷'

$$15 - 3 + 10 \times 5 + 5 = ?$$

$$15 \times 3 - 10 \div 5 - 5 = ?$$

Apply bodmass rule

$$15 \times 3 - 2 - 5 = ?$$

$$45 - 2 - 5 = ?$$

$$45 - 2 - 5 = 38$$

Question 49

If a chord of length 24 cm is at a distance of 5 cm from centre, then find the radius of the circle.

- A 17 cm
- B 15 cm
- C 25 cm
- D 13 cm

Answer: D

Explanation:

it becomes a right angle triangle

chord = 24 cm

so

base of triangle = half of 24 = 12 cm

height = 5cm

apply pythagoras's theorem

$$\begin{aligned} \text{hypotenuse} &= \sqrt{(5^2 + 12^2)} \\ &= 13\text{cm} \end{aligned}$$

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Question 50

When objects are immersed in a fluid, they experience which of the following forces?

- A Spring force
- B Frictional force
- C Buoyant force
- D Mechanical force

Answer: C

Question 51

What is the common name of sodium carbonate?

- A Bleaching powder
- B Baking soda
- C Washing soda
- D Common salt

Answer: C

Question 52

Find the value of $\frac{(82+28)^2 - (82-28)^2}{82 \times 28}$.

- A 220
- B 8
- C 4
- D 110

Answer: C

Explanation:

$$\frac{(82+28)^2 - (82-28)^2}{82 \times 28}$$

$$\frac{(82+28)^2 - (82-28)^2}{82 \times 28}$$

$$(a + b)^2 = a^2 + b^2 + 2ab$$

$$(a - b)^2 = a^2 + b^2 - 2ab$$

apply this rule In equation

$$\frac{82^2 + 28^2 + 2 \times 82 \times 28 - (82^2 + 28^2 - 2 \times 82 \times 28)}{82 \times 28}$$

$$= 4$$

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Question 53

Complete the series.

10, 20, 10, 9, 21, 11, 8, 22, 12, (...)

- A 8
- B 11
- C 5
- D 7

Answer: D

Explanation:

10, 20, 10, 9, 21, 11, 8, 22, 12, (...)

In this series there are 3 alternate series are there

10 -- 9 -- 8 -- 7

- 20 - 21 - 22 -

- 10 - 11 - 12 -

so the next no. Be 7

Question 54

After deducting a commission of 5%, a television set costs Rs.9595. Find its marked price.

- A Rs.10100
- B Rs.10000
- C Rs.10500

D Rs.10075

Answer: A

Explanation:

let mp = Rs 100, after deducting 5% commision, means Rs 5, the discounted price of that item will be Rs. 95

If discounted price is 95, then the marked price is 100

If discounted price of TV set is Rs 9595, then its marked price has to be

$95 = 9595$

so,

$100 = 10100$

= Rs. 10100

Thus the marked price of TV set is Rs 10100

Question 55

In which city is Indira Gandhi international airport located?

A Kolkata

B New Delhi

C Mumbai

D Chennai

Answer: B

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Question 56

The cube of a number ends in 8. Its square should ends in:

A 6

B 2

C 8

D 4

Answer: D

Question 57

Find the number which is as much greater than 55 as it is smaller than 95.

A 70

B 75

C 45

D 65

Answer: B

Explanation:

If the no. be x

$$x - 55 = 95 - x$$

$$2x = 150$$

$$x = 75$$

Question 58

Who was the first woman Chief Minister of a state in India?

- A Sucheta Kripalani
- B Rajkumari Amrit Kaur
- C Sarojini Naidu
- D Vijayalakshmi Pandit

Answer: A

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Question 59

Find the angle between the hands at 3:30 p.m.

- A 120°
- B 75°
- C 90°
- D 105°

Answer: B

Explanation:

At 3:30, the minute hand is at number 6. At 3:00 the hour hand was at number 3.

total 360 degree which is divided by 12 parts

hence, the angle between two number is 30 degree

so,

The angle between 3 and 6 is 90 degree but hour has moved 15 degree. (between 3 and 4)

Hence the angle between the two is $(90 - 15) = 75$ degree.

Question 60

M.S. Dhoni is the only captain in the world to have won all the _____ major ICC trophies.

- A Six
- B Four
- C Five
- D Three

Answer: D

Question 61

The echo of the sound of a boy standing in front of a mountain is heard after 0.2 s. What is the distance of the mountain from the boy when speed of the sound is 342 m/s?

- A 68.8 m
- B 34.2 m
- C 68.4 m
- D 34.4 m

Answer: B

Explanation:

echo of the sound = 2 times of the original sound

$$0.2 \text{ sec} = 2x$$

$$x = 0.1 \text{ sec}$$

$$\text{speed} = \frac{\text{distance}}{\text{speed}}$$

$$0.1 = \frac{\text{distance}}{342}$$

$$\text{distance} = 34.2 \text{ m}$$

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Question 62

If an incident ray is reflected back along the same path in a concave mirror, then through which point does that ray pass?

- A Any point between focus F and centre of curvature C
- B Pole P
- C Centre of curvature C
- D Focus F

Answer: C

Question 63

At present, the maximum strength of Rajya Sabha is-

- A 250
- B 238
- C 233
- D 245

Answer: A

Question 64

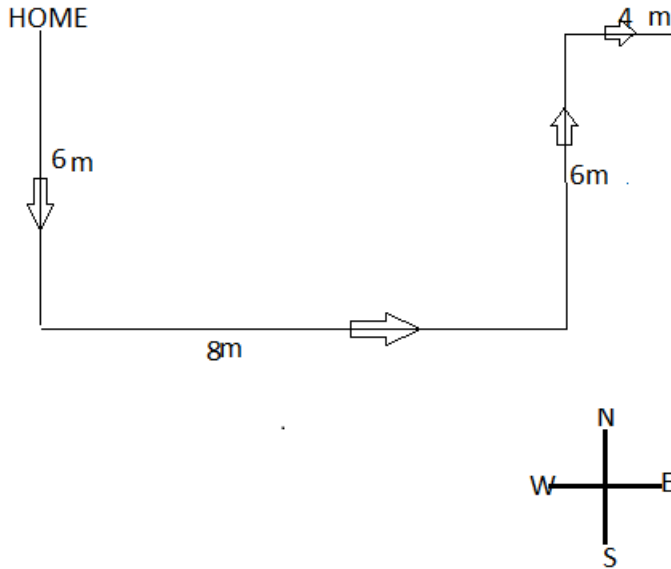
Arun went 6 m from his home towards south and turned left to cover 8 m. Again he turned left and covered 6 m. He again turned right and covered 4 m. What was the direct distance from his home and which direction was he facing?

- A 10 m, north

- B 12 m, north
- C 10 m, east
- D 12 m, east

Answer: D

Explanation:



total distance $8\text{ m} + 4\text{ m} = 12\text{ m}$, east

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Question 65

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

Statements:

- 1) Fishes live in water.
- 2) Tigers live in land.
- 3) Amphibians live both in water and on land.

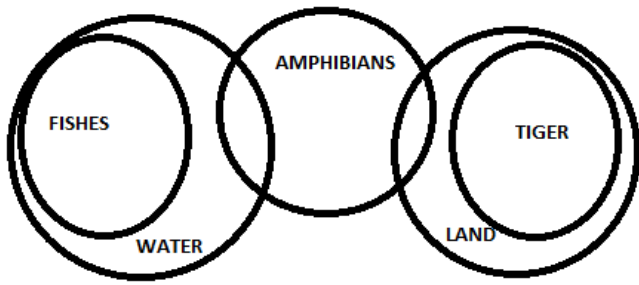
Conclusions:

- I. Fishes, amphibians and tigers belong to the same family.
- II. Both the amphibians and tigers can live in land.

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

Answer: B

Explanation:



I. Fishes, amphibians and tigers belong to the same family.

No, Fishes belong to water, tigers belong to land and amphibians belong to both, so, it doesn't follow.

II. Both the amphibians and tigers can live in land.

Yes, Both the amphibians and tigers can live in land as shown in figure.

so, **Only conclusion II follows**

Question 66

The Simple Interest on Rs.'x' for 3 years at 8% equals half the Compound Interest on Rs.4000 at 10% for 2 years. Find 'x'.

- A Rs.1750
- B Rs.6000
- C Rs.1520
- D Rs.1400

Answer: A

Question 67

The element with atomic number 14 is hard and forms acidic oxide and a covalent halide. To which of the following categories does the element belong?

- A Non-metals
- B Metalloid
- C Metal
- D Alloy

Answer: B

Question 68

A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B ?

- A 9
- B 7
- C 10
- D 8

Answer: C

Explanation:

let C age be x years. Then, B age = $2x$ years. A age = $(2x + 2)$ years.

ATQ

$$(2x + 2) + 2x + x = 27$$

$$5x = 25$$

$$x = 5$$

$$B = 2x = 10 \text{ years}$$

Question 69

Two trains are running in opposite directions with the same speed. If the length of each train is 120 m, and they cross each other in 12 seconds, then find the speed of each train.

- A 18 km/h
- B 72 km/h
- C 36 km/h
- D 10 km/h

Answer: C

Explanation:

let the speed of each train be x m/sec.

relative speed of the two trains = $2x$ m/sec.

$$\text{so, speed} = \frac{\text{distance}}{\text{time}}$$

$$2x = \frac{120 + 120}{12}$$

$$2x = 20$$

$$x = 10$$

$$\text{Speed of each train} = 10 \text{ m/sec} = \frac{18}{5} \times 10 = 36 \text{ km/hr.}$$

Question 70

Molecules are too small to be seen with naked eyes, but they can be seen with the help of-

- A Periscope
- B Electron microscope
- C Telescope
- D Binoculars

Answer: B

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Question 71

Simplify: $(0.3 \times 0.3 + 0.01) \times (0.1 \times 0.1 + 0.09)$

A 9

B $\frac{1}{10}$

C $\frac{1}{100}$

D 1

Answer: C

Explanation:

$$(0.3 \times 0.3 + 0.01) \times (0.1 \times 0.1 + 0.09)$$

apply bodmass rule before that solve bracket

$$(0.3 \times 0.3 + 0.01)$$

$$(0.09 + 0.01)$$

$$0.1$$

$$(0.1 \times 0.1 + 0.09)$$

$$(0.01 + 0.09)$$

$$0.1$$

$$0.1 \times 0.1 = 0.01 = \frac{1}{100}$$

Question 72

Froth floatation process is based on-

A Magnetic particles of ore

B Specific gravity of ore particles

C Wetting of ore particles

D Electrical properties of ore

Answer: C

Question 73

The simplest way to maintain a potential difference between the two ends of a conductor, so as to get a continuous flow of current is to connect the conductor between the terminals of a _____.

A Rheostat

B Ammeter

C Battery

D Voltmeter

Answer: C

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Question 74

Which of the following is NOT a biodegradable waste?

- A Vegetable peel
- B Rotting fruit
- C Polythene bag
- D Dead leaves

Answer: C

Question 75

If the selling price is Rs.1680 there is a loss of 16%, what should be the marked price on this product, if after allowing discount of 8% there is a profit of 15%?

- A Rs.2000
- B Rs.2500
- C Rs.2600
- D Rs.2200

Answer: B

Explanation:

loss = 16%.

let cp = 100 then Selling Price (SP) = CP - Loss = 84

As SP 1680 given, the CP would be

$$1680 = 84$$

$$100 = 2000$$

$$cp = 2000$$

He wants to earn a profit of 15%.

His profit will be $\frac{15}{100} \times 2000 = 300$

Therefore his SP is $2000 + 300 = 2300$

But he wants to offer a discount of 8%.

SP will be 92 if the Marked Price was 100 and discount was 8%.

With SP being 2300, Marked Price should be $\frac{2300}{92} \times 100 = 2500$

Marked Price = Rs. 2500

Question 76

Selvam is on 9th position from upwards and on 38th position from downwards in a class. How many students are in class?

- A 46
- B 47

C 45

D 48

Answer: A

Explanation:

To ta no. Of students = rank from top + rank from bottom -1

$$= 9+38 -1$$

$$\text{no. Of students} = 46$$

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Question 77

The mean of x , $x + 3$, $x + 5$, $x + 7$, $x + 10$ is 9. What is the mean of the first 3 observations?

A 7

B 6.66

C 7.8

D 7.3

Answer: B

Explanation:

Mean = sum of the observation by no. Of observation

$$9 = \frac{x+x+3+x+5+x+7+x+10}{5}$$

$$9 =$$

$$\frac{5x+25}{5}$$

$$x = 4$$

so mean of first 3 no. Is

$$= \frac{4+7+9}{3}$$

$$= 6.66$$

Question 78

In 16 minutes, the minute hand gains over the hour hand.

A 88°

B 16°

C 80°

D 96°

Answer: A

Question 79

Name the physical quantity whose unit is Ohm(Ω).

A Potential difference

- B Current
- C Resistance
- D Charge

Answer: C

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Question 80

Complete the series.

18, 21, 24, 27, (...)

- A 32
- B 30
- C 31
- D 29

Answer: B

Explanation:

18, 21, 24, 27, (...)

Addition of three in each no.

$$18 + 3 = 21$$

$$21 + 3 = 24$$

$$24 + 3 = 27$$

$$27 + 3 = 30$$

Question 81

Who among the following won the Malaysia Open 2019 title?

- A Chen Long
- B Keigo Sonoda
- C Lin Dan
- D Zheng Siwei

Answer: C

Question 82

A sum of Rs.800 becomes Rs.956 in 3 years at some rate of Simple Interest. If the rate is increased by 4%, then what will be the gain in the investment?

- A Rs.1052
- B Rs.96
- C Rs.72
- D Rs.108

Answer: B

Explanation:

$$SI = 956 - 800 = 156 \text{ Rs.}$$

$$\text{rate} = \frac{SI \times 100}{P \times T}$$

$$\frac{156 \times 100}{800 \times 3} = 6.5\%$$

New rate = 10.5%

$$S.I = \frac{P \times R \times T}{100}$$

$$= \frac{800 \times 10.5 \times 3}{100}$$

= 252 Rs

so investment gain = Rs 252 - Rs 156 = Rs 96

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Question 83

Identify a physical quantity which is NOT a vector.

- A Displacement
- B Force
- C Distance
- D Acceleration

Answer: C

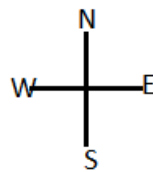
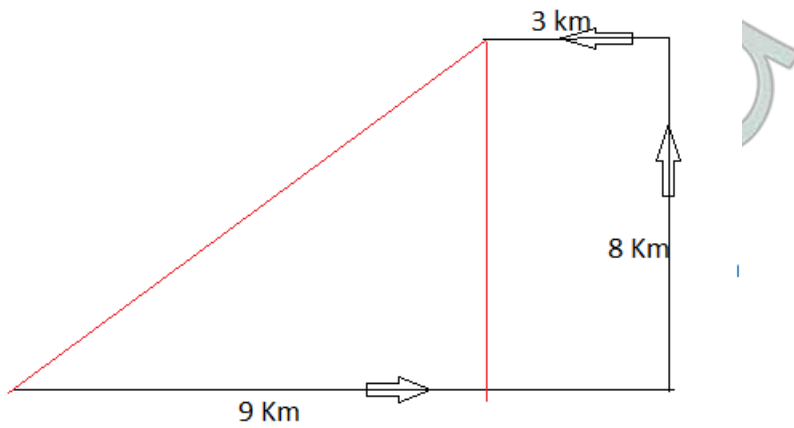
Question 84

Lalit walks 9 km east, turns left and walks another 8 km. He again takes a left and walks another 3 km. How far and in which direction is he now from his starting point?

- A 14 km, south east
- B 12 km, north west
- C 8 km, south west
- D 10 km, north east

Answer: D

Explanation:



Here we have to apply Pythagoras theorem

sides are 8 and 6 (9-3)

$$\sqrt{8^2 + 6^2} = 10$$

10 km, north east

Question 85

If the cost price of 24 pens is equal to the selling price of 18 pens, find the profit per cent.

- A 25%
- B 50%
- C 30%
- D 33.33%

Answer: D

Explanation:

$$24 \text{ CP} = 18 \text{ SP}$$

$$\text{Then } \frac{\text{SP}}{\text{CP}} = \frac{24}{18}$$

$$\frac{\text{SP}}{\text{CP}} = \frac{24}{18} \text{ means SP} = 4 \text{ and CP} = 3$$

$$\text{so loss \%} = \frac{3-4}{3} \times 100$$

$$33.33\%$$

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Question 86

Silver chloride turns _____ in sunlight.

- A Orange
- B White

C Grey

D Red

Answer: C

Question 87

Simplify: $\left(\frac{\sin^2 \theta}{\cos \theta}\right) + \left(\frac{\cos^2 \theta}{\cos \theta}\right)$

A cosec θ

B sec θ

C tan θ

D cot θ

Answer: B

Question 88

Which force acts in the direction opposite to the motion of the object, which is between the surface of the ground and the object opposing the motion of the object?

A Force of gravity

B Magnetic force

C Electrostatic force

D Force of friction

Answer: D

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Question 89

Transpiration decreases in conditions.

A High humidity

B Low humidity

C High light intensity

D High temperature

Answer: A

Question 90

Complete the series.

HIG, KLJ, NOM, (...)

A QRP

B QRS

C RPQ

D PQR

Answer: A

Explanation:

HIG, KLJ, NOM, (...)

letters are in Alphabetical Order

Third letter of word then first and second letter comes

HIG = GHI

Similarly

KLJ = JKL,

NOM = MNO

so next word must be in the position of third letter then first second

QRP = PQR

Question 91

The sum of two numbers is 35. Their product is 150. Find the HCF of the sum of their reciprocals and the difference of the reciprocals.

A $\frac{7}{30}$

B $\frac{7}{15}$

C $\frac{5}{30}$

D $\frac{1}{30}$

Answer: D

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Question 92

The second five year plan that called for the establishment of socialist pattern of society was commonly referred to as the-

A Nehru Plan

B Socialistic Plan

C Mahalanobis Plan

D Harrod-Domar Plan

Answer: C

Question 93

A man, a woman and a boy can do a work individually in 3, 4 and 12 days respectively. How many boys are to be employed to help 3 men and 4 women to finish the work in $\frac{1}{4}$ of a day?

A 12

B 20

C 24

D 28

Answer: C

Explanation:

Man = 3 days

Woman = 4 days

boy = 12 days

Total work done = LCM (3,4,12) = 12

Man's efficiency = $\frac{12}{3} = 4$

Woman's efficiency = $\frac{12}{4} = 3$

boy's efficiency = $\frac{12}{12} = 1$

Total days = $\frac{12}{8}$ days

N no. Of boys are to be employed to help 3 men and 4 women to finish the work in $\frac{1}{4}$ of a day

so

as we know that ,

efficiency multiplied by time = work

3 men = $3 \times 4 = 12$

4 women = $4 \times 3 = 12$

$12 \times \frac{1}{4} + 12 \times \frac{1}{4} + N \times \frac{1}{4} = 12$

N = 24 boys

Question 94

In the following question, which of the two signs are interchanged to make the equation correct?

$$3 \div 5 \times 8 + 2 - 10 = 13$$

A \div and $-$

B \div and $+$

C $+$ and $-$

D \times and \div

Answer: B

Explanation:

$$3 \div 5 \times 8 + 2 - 10 = 13$$

\div and $+$

$$3 + 5 \times 8 \div 2 - 10 = 13$$

apply bodmass rule

$$3 + 5 \times 4 - 10 = 13$$

$$3 + 20 - 10 = 13$$

$$13 = 13$$

Question 95

Complete the series.

2, 5, 9, 19, 37, (...)

A 76

B 75

C 72

D 74

Answer: B

Explanation:

2, 5, 9, 19, 37, (...)

$$2 \times 2 + 1 = 5$$

$$5 \times 2 - 1 = 9$$

$$9 \times 2 + 1 = 19$$

$$19 \times 2 - 1 = 37$$

so,

$$37 \times 2 + 1 = 75$$

Question 96

The total age of A and B is 12 years more than the total age of B and C. Who is younger among A and C, and by how many years?

A A, by 6 years

B C, by 12 years

C A, by 12 years

D C, by 6 years

Answer: B

Explanation:

$$\text{age of A and B} = 12 + (B + C)$$

$$A + B = 12 + (B + C)$$

$$= A - C = 12$$

$$A = 12 + C$$

so A is elder and C is younger by 12 years

Question 97

In a certain code, 'GROWTH' is written as 'HQPVUG' and 'FOUR' is written as 'GNVQ'. How is 'PROBLEMS' written in that code?

A QQPAKDNR

B QQNCMDNR

C OQPAMDNR

D QQPAMDNR

Answer: D

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Question 98

N shell will have maximum of _____ electrons.

- A 2
- B 16
- C 8
- D 32

Answer: D

Question 99

Which word will best complete the relationship given below?

Horse : Hoof :: Cat : ?

- A Leg
- B Hand
- C Tail
- D Paw

Answer: D

Explanation:

Horse

hoof = the horny part of the foot of an a horse.

similarly,

cat

paw = the foot of cat

Question 100

Double fertilisation is a characteristic of-

- A Gymnosperm
- B Angiosperm
- C Monocots
- D Bryophytes

Answer: B

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