



RRB JE 31st May 2019 Shift-1

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Instructions

For the following questions answer them individually

Question 1

Where is the Lakh Bahosi Sanctuary located?

- A Odisha
- B West Bengal
- C Jharkhand
- D Uttar Pradesh

Answer: D

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Question 2

A cyclic hydrocarbon with the molecular formula C_6H_6 is-

- A Methane
- B Cyclo pentane
- C Naphthalene
- D Benzene

Answer: D

Question 3

Which product of petroleum is used to drive heavy vehicles like truck?

- A Petrol
- B Petroleum gas
- C Kerosene
- D Diesel

Answer: D

Question 4

Express the the following expression in terms of partial fraction :

$$\frac{X}{(X+1)^2}$$

- A $\frac{1}{X+1} + \frac{1}{(X+1)^2}$
- B $\frac{1}{X+1} + \frac{X-1}{(X+1)^2}$
- C $\frac{1}{X+1} - \frac{1}{(X+1)^2}$

D $\frac{2}{X+1} - \frac{1}{(X+1)^2}$

Answer: C

Explanation:

By option C,

$$\frac{1}{X+1} - \frac{1}{(X+1)^2} = \frac{[(X+1) - 1]}{(X+1)^2} = \frac{X}{(X+1)^2}$$

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Question 5

Three 2 V cells are connected in series and used as a battery in a circuit. What is the potential difference at the terminals of the battery?

A 1 Volts

B 2 Volts

C 6 Volts

D 4 Volts

Answer: C

Question 6

Which colour among the seven colours of the white light gets most deviated after dispersion of light through a glass prism?

A Violet

B Orange

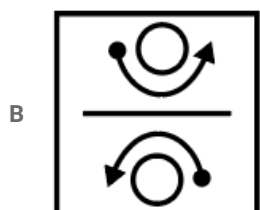
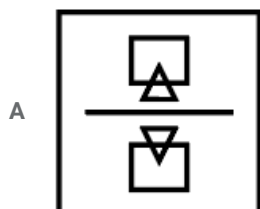
C Indigo

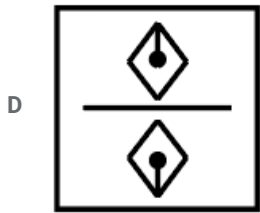
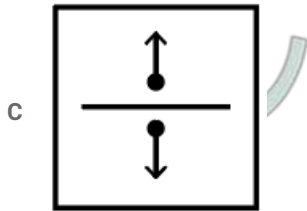
D Red

Answer: A

Question 7

Find the ODD oneout from the given options.





Answer: B

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Question 8

Which of the following vitamins is NOT fat soluble?

- A Vitamin K
- B Vitamin D
- C Vitamin C
- D Vitamin A

Answer: C

Question 9

Which of the following scientist(s) was awarded Nobel Prize in Genetics ?

- A Bateson
- B Morgan
- C Both Morgan and Khorana
- D Khorana

Answer: C

Question 10

The reaction between sodium hydroxide with zinc gives the product-

- A Reaction is not possible
- B Sodium zincate
- C Zinc oxide
- D Zinc hydroxide

Answer: B

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Question 11

The knee cap is called as

- A Malus
- B Fibula
- C Scapula
- D Patella

Answer: D

Question 12

Evaluate: $\left(\frac{\sin 47^\circ}{\cos 43^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\sin 47^\circ}\right)^2 - 4\cos^2 45^\circ$

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

Answer: B

Explanation:

$$\begin{aligned} & \left(\frac{\sin 47^\circ}{\cos 43^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\sin 47^\circ}\right)^2 - 4\cos^2 45^\circ \\ \Rightarrow & \left(\frac{\sin 47^\circ}{\cos(90-47)^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\sin(90-43)^\circ}\right)^2 - 4 \times \left(\frac{1}{\sqrt{2}}\right)^2 \\ \Rightarrow & \left(\frac{\sin 47^\circ}{\sin 47^\circ}\right)^2 + \left(\frac{\cos 43^\circ}{\cos 43^\circ}\right)^2 - 2 = 1 + 1 - 2 = 0 \end{aligned}$$

Question 13

An alkali is a base that dissolves in

- A Water
- B Acid
- C Mercury
- D Kerosene

Answer: A

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Question 14

Find the ODD one out.

2222, 222.2, 22.22, 2.222

- A 22.22

B 222.2

C 2.222

D 2222

Answer: D

Question 15

Pooja's age 4 years back and Deepa's age after 4 years are equal. The ratio of Pooja's age 4 years hence and Deepa's age 4 years before is 3 : 1. What is the ratio of their present ages?

A 5 : 2

B 5 : 7

C 4 : 7

D 5 : 3

Answer: D

Explanation:

let the present age of Pooja and Deepa are x and y respectively

4 years ago age of pooja = $x - 4$

4 years ago age of Deepa = $y - 4$

4 years hence Pooja's age = $x + 4$

4 years hence Deepa's age = $y + 4$

Pooja's age 4 years back and Deepa's age after 4 years are equal $\Rightarrow x - 4 = y + 4$

solving, $x - y = 8$(1)

ratio of Pooja's age 4 years hence and Deepa's age 4 years before is 3 : 1

$$\frac{x+4}{y-4} = \frac{3}{1}$$

solving, $3y - x = 16$(2)

from (1) and (2)

$$x = 8 + y$$

$$16 = 3y - (8 + y)$$

$$16 = 3y - 8 - y$$

$$24 = 2y$$

$$y = 12$$

$$x = 20$$

ratio of their present ages = 20 : 12

$$= 5 : 3$$

Question 16

Where is insulin produced in the human body?

A Pancreas

B Spleen

C Liver

D Bile duct

Answer: A

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Question 17

Vijayan started walking towards south. After walking 15 m, he turned left and walked 15 m. He again turned left and walked 15 m. How far and in which direction is he from his starting point?

A 15 m, south

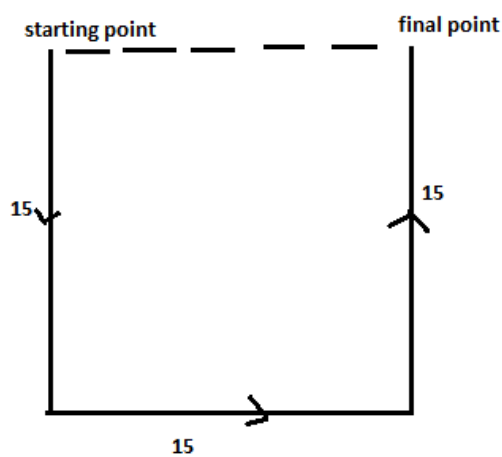
B 30 m, east

C 15 m, east

D 15 m, west

Answer: C

Explanation:



Question 18

Which of these countries was created in the twentieth century?

A Japan

B USA

C Nepal

D Bangladesh

Answer: D

Question 19

Which of the following form a set of homologous series?

A Ethyne, propyne and butyne

B Ethane, methane and propene

C Ethane, methane and ethyne

D Ethyne, propyne and butene

Answer: A

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Question 20

If 'sti nro kti' stands for 'clouds pour down', 'nro bsi mit' stands for 'down he goes', and 'bsi nro zpi' stands for 'died down he', which word would mean 'goes'?

- A mit
- B bsi
- C kti
- D nro

Answer: A

Explanation:

down = nro

he = bsi

goes = mit

Question 21

If $5 \# 3 @ 3 = 12$ and $7 \# 2 @ 4 = 10$, then what will be $2 \# 9 @ 5$?

- A 29
- B 32
- C 13
- D 26

Answer: C

Explanation:

$5 \# 3 @ 3 = 12$ and $7 \# 2 @ 4 = 10$

here # is multiplication and @ is subtraction

$$5 * 3 - 3 = 12$$

$$7 * 2 - 4 = 10$$

so,

$$2 \# 9 @ 5 = 2 * 9 - 5 = 13$$

Question 22

Which of the following can be produced by dolphins, porpoises, bats and rats?

- A Infrasound
- B Note
- C Music
- D Ultrasound

Answer: D

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Question 23

If $3\sqrt{5} + \sqrt{125} = 17.88$, then find the value of $\sqrt{80} + 6\sqrt{5}$

- A 22.35
- B 18.75
- C 20.235
- D 22.25

Answer: A

Explanation:

$$3\sqrt{5} + \sqrt{125} = 17.88$$

$$3\sqrt{5} + \sqrt{25 \times 5} = 17.88$$

$$3\sqrt{5} + 5\sqrt{5} = 17.88$$

$$8\sqrt{5} = 17.88$$

then,

$$\sqrt{80} + 6\sqrt{5} = \sqrt{16 \times 5} + 6\sqrt{5}$$

$$= 4\sqrt{5} + 6\sqrt{5}$$

$$= 10\sqrt{5}$$

if $8\sqrt{5} = 17.88$, then

$$10\sqrt{5} = 22.35$$

Question 24

If in a certain language 'CHAMPION' is coded as 'HCMAIPNO', how is 'NEGATIVE' coded in that code?

- A ENGAETVI
- B ENAGITEV
- C ENAGVEIT
- D EGAITEVN

Answer: B

Explanation:

the 1st and 2nd letter are swapped, then 3rd and 4th letter are swapped, similarly 5th and 6th, 7th and 8th letters are swapped

NEGATIVE = ENAGITEV

Question 25

Resistance (R) = Voltage(V)/ _____.

- A Current (I)
- B Charge (Q)
- C Work (J)
- D Power (P)

Answer: A

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Question 26

A number leaves a remainder 4 when divided by 6. What is the remainder when its square is divided by 6?

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

Answer: D

Question 27

If 'PLAY' is coded as 8123 and 'RHYME' is coded as 49367, then how is 'MALE' coded?

- A 6217
- B 6285
- C 6198
- D 6395

Answer: A

Explanation:

'PLAY' is coded as 8123

here ,P = 8 ,L = 1 , A = 2 , Y = 3

'RHYME' is coded as 49367

here ,R = 4 ,H = 9 , Y = 3 , M = 6 , E = 7

'MALE' will be coded as 6217

Question 28

Which celestial body was considered as a planet till 2006 and not a planet after that?

- A Mercury
- B Jupiter
- C Pluto
- D Venus

Answer: C

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Question 29

Two tables are bought for Rs.2000 by a person. He sells them later, one at a loss of 5%, the other at a gain of 5% thereby incurring a loss of Rs.20. What are the cost prices of the two tables?

A Rs.1400, Rs.600

B Rs.1300, Rs.700

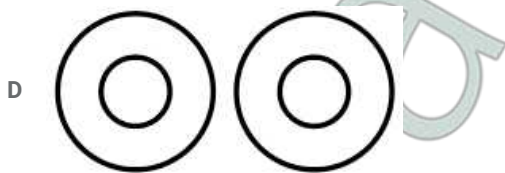
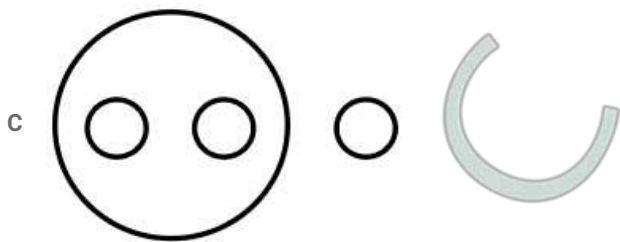
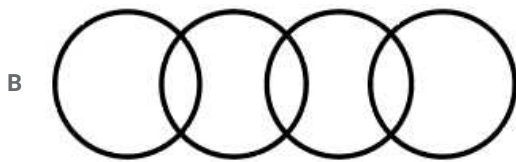
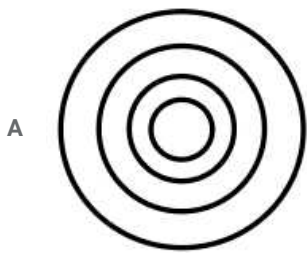
C Rs.1200, Rs.800

D Rs.1050, Rs.950

Answer: C

Question 30

Choose the figure that best represents the relationship among the classes given below.
Indoor games, Chess, Table tennis, Cricket



Answer: C

Explanation:

option c is correct because table tennis and chess are indoor games so they are inside indoor games
cricket is an outdoor game so it has no relation with indoor games circle

Question 31

Which of the following denotes currency with the public?

A M1

B M2

C M3

D M4

Answer: A

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Question 32

With which of the following sports is the term 'pitcher' associated?

- A Cricket
- B Base ball
- C Volley ball
- D Football

Answer: B

Question 33

A certain sum invested for T years at 10% per annum Simple Interest amounts to Rs.400. The amount gets halved when the interest comes down to 4% per annum, the principal and time being the same. What is the principal and value of T?

- A T = 50 years; P = Rs.200/3
- B T = 50 years; P = Rs.200
- C T = 25 years; P = Rs.200/3
- D T = 50 years; P = Rs.100

Answer: A

Question 34

Complete the series.

33, 36, 12, 15, 5, (...)

- A 4
- B 6
- C 10
- D 8

Answer: D

Explanation:

there is 2 different series

33,12,5 and 36,15,x

$33 - 21 = 12$

$12 - 7 = 5$

similarly

$36 - 21 = 15$

$15 - 7 = 8$

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Question 35

Find the wrong number in the given series.

360, 120, 60, 20, 11

- A 11
- B 360
- C 20
- D 60

Answer: A

Explanation:

there are 2 different series

360,60,11 and 120,20

each number is divided by 6 to get the next number

$120/6=20$

$360/6=60$

$60/6$ should be 10 and not 11 so 11 is the wrong number

Question 36

Babu Lal Marandi was the first chief minister of which Indian state?

- A Uttar Pradesh
- B Karnataka
- C Jharkhand
- D Chhattisgarh

Answer: C

Question 37

For what values of 'K' does the equation $x^2 + 2Kx + 4 = 0$ have one real solution?

- A 2, -2
- B 0
- C 2, 0
- D -2, 0

Answer: A

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Question 38

The frictional force on an object in a fluid depends on what?

- A Shape of the object
- B All of the options

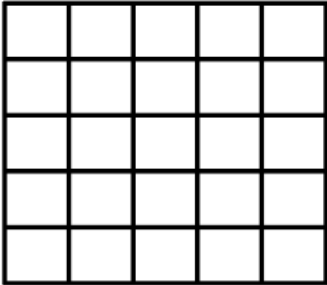
C Its speed with respect to the fluid

D Nature of the fluid

Answer: B

Question 39

How many squares are there in the given figure?



A 45

B 23

C 36

D 55

Answer: D

Question 40

Palaeontology deals with the study of -

A Bones

B Fossils

C Hard shells

D Feathers

Answer: B

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Question 41

What was the name of the space shuttle that landed man on the moon?

A Challenger

B Eagle

C Apollo

D Columbia

Answer: C

Question 42

Find the missing number in the following series.

5, 69, 101, (...), 125, 129

A 117

B 112

C 126

D 103

Answer: A

Explanation:

$$5 + 2^6 = 69$$

$$69 + 2^5 = 101$$

$$101 + 2^4 = 117$$

$$117 + 2^3 = 125$$

$$125 + 2^2 = 129$$

Question 43

After completing a work together in 2 days, P and Q received Rs.1200 and Rs.400 respectively as wages. In how many days will Q alone complete the work?

A 1/3 days

B 8 days

C 6 days

D 3 days

Answer: B

Explanation:

ratio of efficiency of P and Q is

$$P : Q = 1200 : 400 = 3 : 1$$

$$\text{total work} = \text{time} * \text{efficiency} = 4 * 2 = 8$$

$$\text{Q alone can do the work in} = \text{work/efficiency} = 8/1 = 8 \text{ days}$$

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Question 44

Which of the following devices uses Archimedes principle?

A Thermometer

B Barometer

C Hygrometer

D Hydrometer

Answer: D

Question 45

Bile secreted by liver helps in -

- A Respiration
- B Digestion
- C Purification of blood
- D Excretion

Answer: B

Question 46

Dendrons are parts of-

- A Cartilage
- B Neuron
- C Nephron
- D Muscle Cell

Answer: B

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Question 47

P and Q together can do a job in 7 days. P is twice as efficient as Q. In how many days can P alone do the job?

- A 12 days
- B 15 days
- C 10.5 days
- D 21 days

Answer: C

Explanation:

P and Q can do the work in 7 days

efficiency of P : efficiency of Q = 2 : 1

total work = $7 * 3 = 21$

P can alone do the work in $\frac{21}{2} = 10.5$ days

Question 48

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

Statement:

Video-libraries are flourishing very much these days.

Conclusions:

I. People in general have got a video craze.

II. It is much cheaper to see as many movies as one likes on videos rather than going to the cinema hall.

- A Neither conclusions I nor II follows
- B Only conclusion II follows
- C Only conclusion I follows

D Either conclusion I or II follows

Answer: A

Question 49

When will the tenure of Chief Justice of India Ranjan Gogoi end?

A 17 November 2019

B 15 October 2019

C 12 August 2019

D 17 December 2019

Answer: A

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Question 50

Who among the following was the President of the Constituent Assembly?

A Jawaharlal Nehru

B B.R. Ambedkar

C Rajendra Prasad

D C. Rajagopalachari

Answer: C

Question 51

A sum of money amounts to Rs.9800 in 5 years and Rs.12005 in 8 years at the same rate of simple interest. What is the rate of interest?

A 5%

B 15%

C 12%

D 8%

Answer: C

Explanation:

SI for 3 years = Rs.(12005 - 9800) = Rs. 2205

SI for 5 years = $\frac{2205}{3} \times 5$ = Rs. 3675

principal = Rs.(9800-3675) = Rs.6125

hence,rate = $\frac{100 \times 3675}{6125 \times 5}$ % = 12%

Question 52

Mohan started from point A and proceeded 7 km straight towards east, then he turned left and proceeded straight for a distance of 10 km. He then turned left again and proceeded straight for a distance of 6 km, and then turned left again and proceeded straight for another 10 km. How far and in which direction is he from the point A?

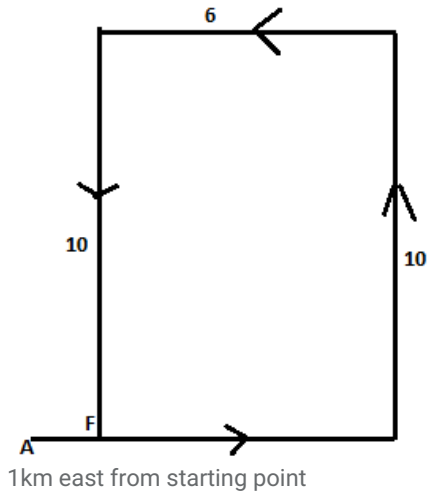
- A 1 km, west
- B 1 km, south
- C 1 km, east
- D 2 km, north

Answer: C

Explanation:

A - starting point

F - final point



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Question 53

Which of the following is same as 14 m/s?

- A 50.4 km/h
- B 70 km/h
- C 28 km/h
- D 46.6 km/h

Answer: A

Explanation:

$$m/s = 18/5 \text{ km/hr}$$

$$14 \text{ m/s} = 14 \times \frac{18}{5}$$

$$= 50.4 \text{ km/hr}$$

Question 54

Two varieties of rice each costing Rs.50 per kg and Rs.60 per kg respectively are mixed in some ratio, and the mixed rice is sold at Rs.70 per kg, so as to get 20% profit. What is the ratio in which the two varieties are mixed?

- A 3 : 5
- B 1 : 5
- C 2 : 5

D 2:7

Answer: B

Question 55

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

Statements:

- 1) All colours are pants.
- 2) All pants are brushes.

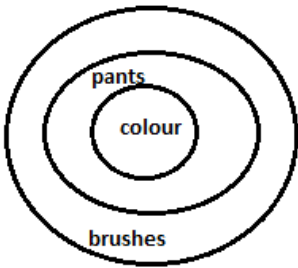
Conclusions:

- I. Some brushes are pants.
- II. Some brushes are colours.

- A Only conclusion II follows
- B Both conclusions I and II follow
- C Neither conclusion I nor II follows
- D Only conclusion I follows
- E None follows

Answer: B

Explanation:



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Question 56

Simplify: $\frac{\sin \theta - 2 \sin^3 \theta}{2 \cos^3 \theta - \cos \theta}$

- A $2 \sin \theta \cos \theta$
- B $\sin \theta - \cos \theta$
- C $\sin \theta + \cos \theta$
- D $\tan \theta$

Answer: D

Question 57

Choose the alternative that best replaces the question mark(?) in the given figure.

4	3	1
3	6	8
2	5	7
23	40	?

- A 58
- B 47
- C 51
- D 54

Answer: A

Explanation:

1st column, $4^2 + 3^2 - 2 = 23$

2nd column, $3^2 + 6^2 - 5 = 40$

3rd column = $1^2 + 8^2 - 7 = 58$

Question 58

Which of the following can be beaten into thin sheets?

- A Oxygen
- B Sulphur
- C Iron
- D Nitrogen

Answer: C

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Question 59

The atomic number is denoted by the alphabet-

- A Z
- B A
- C X
- D N

Answer: A

Question 60

Which of the following Chief Ministers unveiled the Yuvashree Arpan Scheme in 2019?

- A Arvind Kejriwal
- B Yogi Adityanath
- C Nitish Kumar
- D Mamata Banerjee

Answer: D

Question 61

Complete the series.

DMP, FLN, HKL, JJJ, (...)

- A MIH
- B III
- C LIH
- D MII

Answer: C

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Question 62

Evaluate: $\frac{1}{1 + \frac{1}{1 + \frac{1}{\{1 - \frac{1}{2}\}}}}$

- A 3/4
- B 3/8
- C 4/3
- D 3/2

Answer: A

Explanation:

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

$$= \frac{1}{1 + \frac{1}{1 + 2}}$$

$$= \frac{1}{1 + \frac{1}{3}}$$

$$= \frac{1}{\frac{4}{3}}$$

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

Question 63

EKS Kosmos 2510 is the first satellite having early warning system launched by-

- A Japan
- B Russia
- C India
- D USA

Answer: B

Question 64

Age of A is twice that of B. Sum of their present ages is 60. What will be the sum of their ages 5 years hence?

- A 70
- B 80
- C 65
- D 75

Answer: A

Explanation:

$$A = 2B$$

$$A+B = 60$$

$$2B + B = 60$$

$$3B = 60$$

$$B = 20$$

$$A=40$$

$$\text{SUM OF AGES AFTER 5 YEARS} = 20 + 40 + 5 + 5 = 70$$

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Question 65

An article marked at Rs.80 is sold for Rs.68. What is the rate of discount?

- A 18%
- B 12%
- C 16%
- D 15%

Answer: D

Explanation:

$$\text{MP} = \text{Rs.}80$$

$$\text{SP} = \text{Rs.}68$$

$$\text{Discount} = \text{MP} - \text{SP} = 80 - 68 = \text{Rs.}12$$

$$\text{rate of discount} = \frac{\text{discount}}{\text{MP}} \times 100\%$$

$$= \frac{12}{80} \times 100\%$$

$$= 15\%$$

Question 66

Which of the following is a desert tree?

- A Palm
- B Coconut

- C Banyan
- D Betel nut

Answer: A

Question 67

The base of a right pyramid is a square of side 24 cm and height of the pyramid is 16 cm. What is its lateral surface area?

- A 960 cm^2
- B 890 cm^2
- C 1020 cm^2
- D 1024 cm^2

Answer: A

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Question 68

Find the area of a parallelogram with base 48 cm and height 32 cm.

- A 1536 cm^2
- B 1426 cm^2
- C 1444 cm^2
- D 1546 cm^2

Answer: A

Question 69

P can complete a work in 6 days. Working with the help of Q, the job is completed in 7 days. If P starts the work and P and Q work on alternate days, in how many days can Q alone complete the job?

- A 10
- B 9
- C 8
- D 12

Answer: B

Question 70

A circular wire of radius 7cm is bent to form a rectangle whose sides are in the ratio 4 : 7 what is the area of the rectangle so formed?

- A 60 cm^2
- B 112 cm^2
- C 56 cm^2
- D 84 cm^2

Answer: B

Explanation:

radius = 7cm

circumference of circle = perimeter of rectangle = $2\pi r = 2 \times \frac{22}{7} \times 7 = 44$ cm

sides of rectangle are in the ratio = l : b = 4 : 7

let length = 4x

breadth = 7x

perimeter = 2(l+b) = 44

$$2(4x+7x)=44$$

$$22x=44$$

$$x = 2$$

length = 4x = $4 \times 2 = 8$

breadth = 7x = $7 \times 2 = 14$

area of reactangle = $l \times b = 8 \times 14 = 112 \text{ cm}^2$

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Question 71

When the digits of a two-digit number are reversed, the value of the number is increased by 45. The sum of the digits is 11. What is the original number?

- A 65
- B 38
- C 24
- D 83

Answer: B

Question 72

Find the missing number in the following series.

11, 30, 22, 41, 33, (...), 44, 63

- A 52
- B 56
- C 48
- D 41

Answer: A

Explanation:

there is 2 different series

11, 22, 33, 44 and 30, 41, x, 63

both pattern follows addition of 11 to next number in the series

$$41 + 11 = 52$$

Question 73

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

Eight captains of different volleyball teams—Iran, Germany, Romania, Serbia, Tunisia, China, Brazil and Cuba are sitting around a circular table and are facing the centre, but not necessarily in the same order. Romanian captain sits third to the left of the Tunisian captain. Only two people sit between the Iran captain and Brazil captain. Neither the Iran captain nor Brazil captain is an immediate neighbour of the Romanian captain. The captain of Cuba sits second to the right of the China captain. China captain is not an immediate neighbour of the Romanian captain. The Iran captain sits third to the left of the Romanian captain. Captains of Serbia and Germany are not immediate neighbours. Serbia captain sits third to the left of the China captain.

How many persons are sitting between the captain of China and Romania in clockwise direction?

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

Answer: D

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Question 74

To row a certain distance upstream and downstream takes t_1 hours and t_2 hours respectively and speed of stream is 'y' km/h. Find speed in still water.

- A $\left(\frac{t_1^2 - t_2^2}{2y}\right)$ km/h
- B $\left[\left(\frac{t_1 - t_2}{t_1 + t_2}\right) y\right]$ km/h
- C $\left[\frac{(t_1 + t_2) 2y}{(t_1 - t_2)}\right]$ km/h
- D $\left[\frac{(t_1 + t_2)}{(t_1 - t_2)} y\right]$ km/h

Answer: D

Question 75

What fraction of an hour is 48 seconds?

- A $\frac{1}{75}$
- B $\frac{2}{73}$
- C $\frac{4}{300}$
- D $\frac{4}{75}$

Answer: A

Explanation:

total number of seconds in an hour = 3600 seconds

acc to the ques, $\frac{48}{3600} = \frac{1}{75}$

Question 76

The junction between two neurons is called-

- A Node of ranvier
- B Synapse
- C Gap junction
- D Motor end plate

Answer: B

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Question 77

Find the greatest number of four digits exactly divisible by 15, 25, 30 and 45.

- A 9000
- B 9600
- C 9900
- D 9400

Answer: C

Question 78

After which Prime Minister was a sports award named in India?

- A P.V. Narasimha Rao
- B Rajiv Gandhi
- C Charan Singh
- D V.P. Singh

Answer: B

Question 79

Which of the following statements is FALSE?

1. The object is always placed to the left of the spherical mirror.
2. All distances parallel to principal axis are measured from pole of the mirror.
3. All distances measured to the right of the origin are taken as negative.
4. Distances measured perpendicular to and above the principal axis are taken as positive.

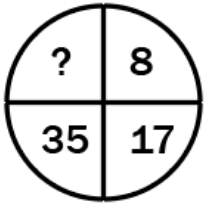
- A 4
- B 1
- C 2
- D 3

Answer: D

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Question 80

Choose the alternative that best replaces the question mark(?) in the given figure.



- A 71
- B 64
- C 74
- D 68

Answer: A

Explanation:

$$8 \times 2 + 1 = 17$$

$$17 \times 2 + 1 = 35$$

$$35 \times 2 + 1 = 71$$

Question 81

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

Statement:

In the university examination, most of the candidates take exam in Hindi medium.

Conclusions:

- I. Some candidates take exam in Hindi.
- II. Most of the candidates appeared for the examination are from Hindi medium.
- III. In this examination no candidate writes answers in medium other than Hindi.
- IV. All the candidates who appear in this examination write answers in Hindi.

- A Only conclusion IV follows
- B Both conclusions I and II follows
- C Only conclusion II follows
- D Only conclusion I follows

Answer: C

Question 82

Find the ODD one out from the given options.

- A 16
- B 8
- C 25
- D 9

Answer: B

Explanation:

all others are square of numbers except 8

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Question 83

What is the name given to the phenomenon of throwing light in various random directions ?

- A Reflection of light
- B Scattering of light
- C Refraction of light
- D Dispersion of light

Answer: B

Question 84

Which of the following is a folk dance of Rajasthan?

- A Bhangra
- B Garba
- C Nati
- D Ghoomar

Answer: D

Question 85

Complete the series.
YA, PP, IP, DL, (...)

- A AE
- B TN
- C YS
- D GE

Answer: A

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Question 86

Find the smallest fraction.

- A $\frac{31}{40}$
- B $\frac{13}{16}$
- C $\frac{7}{8}$
- D $\frac{63}{80}$

Answer: A

Explanation:

take lcm of 40 , 16 , 8 , 80 = 80

convert denominator of every fraction to 80

$$\frac{31}{40} = \frac{62}{80}$$

$$\frac{13}{16} = \frac{65}{80}$$

$$\frac{7}{8} = \frac{70}{80}$$

$$\frac{63}{80} = \frac{63}{80}$$

so largest fraction is $\frac{70}{80}$ or $\frac{7}{8}$

Question 87

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

Eight students—S, T, U, V, W, X, Y and Z are sitting around a circle facing the center. S is second to the right of Y who is third to the right of T. V is second to the left of X who sits between Y and S. U is not a neighbour of T or W.

Who is to the immediate left of U?

A S

B W

C Z

D T

Answer: A

Question 88

Elements of the second period are known as-

A Typical elements

B Bridge elements

C Transition elements

D Earth metals

Answer: B

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Question 89

Which number will best complete the relationship given below?

25 : 9 :: 16 : ?

A 11

B 6

C 8

D 4

Answer: D

Explanation:

25 : 9 :: 16 : ?

$$5^2 : 3^2 :: 4^2 : 2^2$$

in the first group there is a difference of 2 i.e. 5-3, similarly in second group there will be a difference of 2 i.e. 4-2

Question 90

When copper oxide is heated with hydrogen, copper metal and water are formed. What happens to the copper oxide in this reaction?

- A Both reduced and oxidised
- B Decomposed
- C Reduced
- D Oxidised

Answer: C

Question 91

After spending 30% of his salary, a man had Rs.2100 left. From the remaining amount, he spent 15% on minor repairs. What are his savings?

- A Rs.1200
- B Rs.1600
- C Rs.1785
- D Rs.1685

Answer: C

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Question 92

On which date is International Day for Biodiversity observed?

- A 22 May
- B 5 June
- C 15 May
- D 20 May

Answer: A

Question 93

Find the value of $\tan^2 60^\circ - 2 \tan^2 45^\circ - \cot^2 30^\circ + 2 \sin^2 30^\circ + \frac{3}{4} \operatorname{cosec}^2 45^\circ$

- A 2
- B $\frac{\sqrt{3}}{2}$
- C -1
- D 0

Answer: D

Question 94

In a two-digit number, the digit in the unit's place is four times the digit in ten's place and sum of the digits is equal to 10. Find the number.

- A 82
- B 41
- C 28
- D 14

Answer: C

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Question 95

Who among the following has scored the most runs in Ranji Trophy?

- A Wasim Jaffer
- B Mithun Manhas
- C Amol Anil Muzumdar
- D Devendra Bundela

Answer: A

Question 96

Where is 'Keibul Lamjao', the only floating National Park in the world, located?

- A Manipur
- B Meghalaya
- C Nagaland
- D Mizoram

Answer: A

Question 97

The amount of the solute present in the saturated solution at a particular temperature is called its-

- A Solubility
- B Visibility
- C Viscosity
- D Stability

Answer: A

Question 98

Adding electrons to an atom will result in-

- A Neutron
- B Anion
- C Cation
- D Molecule

Answer: B

Question 99

Find the ODD one out from the given options.

- A Stale : Fresh
- B Slow : Sluggish
- C Truth : Lie
- D Kind : Cruel

Answer: B

Explanation:

except option B ,all other are opposite of each other in the group

Question 100

Which of the following is NOT an insectivorous plant?

- A Venus fly-trap
- B Prothallus
- C Pitcher-plant
- D Sundew

Answer: B

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