



RRB JE 27th May 2019 Shift-2

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Instructions

For the following questions answer them individually

Question 1

Which energy of fossil fuel is transformed into electrical energy at thermal power plants?

- A Hydro electric energy
- B Tidal energy
- C Solar energy
- D Chemical energy

Answer: D

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Question 2

Two trains of equal lengths take 10 seconds and 15 seconds respectively to cross a telegraph post. If the length of each train is 120 m, in what time will they cross each other traveling in the opposite direction?

- A 12 seconds
- B 10 seconds
- C 20 seconds
- D 15 seconds

Answer: A

Explanation:

Speed of the first train = $\frac{120}{10} = 12$ m/s

Speed of the second train = $\frac{120}{15} = 8$ m/s

Relative speed = $(12 + 8) = 20$ m/s

So, required time = $\frac{(120+120)}{20} = 12$ sec

Question 3

_____ is a standard for wireless broadband communication for high speed data.

- A 8VSB
- B LTE
- C Dolby digital
- D Gps one

Answer: B

Question 4

Niacin is a form of-

- A Vitamin B3
- B Vitamin B1
- C Vitamin B2
- D Vitamin B4

Answer: A

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Question 5

Why do gymnasts apply some coarse substance on their hands?

- A The coarse substance gives a shiny, beautiful look to their hands
- B The substance causes to sweat more and the hands become wet
- C To increase friction for better grip
- D The coarse substance makes the hands slip on the ground easily

Answer: C

Question 6

The Lucknow Pact of 1916 was made between-

- A The moderates and the extremists
- B Indian National Congress and British Government
- C Indian National Congress and All India Muslim League
- D British Government and All India Muslim League

Answer: C

Question 7

Which of the following substances will NOT give carbon dioxide on treatment with dilute acid?

- A Baking soda
- B Limestone
- C Marble
- D Lime

Answer: D

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Question 8

Covalent compounds-

- A Are poor conductors of electricity
- B Are formed by the sharing of electrons in the bonding atoms
- C Have low melting and boiling point
- D All of the options

Answer: D

Question 9

If 'O' is the circumcentre of a triangle ABC and OD is perpendicular to BC , then find $\angle BOD$.

- A $\left(\frac{1}{2}\right) \angle A$
- B $\angle A$
- C $90^\circ - \angle A$
- D $2\angle A$

Answer: B

Explanation:

In triangle BOC and triangle COD

$BO = CO$ ----- (Both are radius)

$\angle BDO = \angle CDO = 90^\circ$

OD is common in both triangle

So, $\angle BOD = \angle COD$ ----- i

As we know that angle at centre is double the angle at the circumference

$\angle BOC = 2\angle BAC$

$2\angle BOD = 2\angle BAC$ ----- (from i)

$\angle BOD = \angle BAC$

Hence, $\angle BOD = \angle A$

Question 10

"Systema Nature" was written by -

- A Aristotle
- B Haeckel
- C John Ray
- D Carolus Linnaeus

Answer: D

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Question 11

Which of the following will turn blue litmus red?

- A Washing soda solution
- B Limewater
- C Vinegar
- D Baking soda solution

Answer: C

Question 12

What is the theme of 'World Wildlife Day', 2019?

- A Forests and education - learn to love forests
- B Wetlands and climate change
- C Act to change laws that discriminate
- D Life below water: for people and planet

Answer: D

Question 13

Find the greatest among these fractions.

$\frac{5}{11}$, $\frac{3}{15}$, $\frac{12}{11}$, $\frac{4}{7}$, $\frac{9}{12}$

- A $\frac{12}{11}$
- B $\frac{4}{7}$
- C $\frac{9}{12}$
- D $\frac{3}{15}$

Answer: A

Explanation:

As we can see that only fraction $\frac{12}{11}$ has numerator more than its denominator,

So, greatest fraction will be $\frac{12}{11}$

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Question 14

What is the weight of an object?

- A It is the area occupied by the object
- B It is the force with which it is attracted towards the Earth
- C It is the volume of the object
- D It is the inertia of the object

Answer: B

Question 15

Ages of a mother and daughter are in the ratio 12 : 5. Ten years hence, she will be twice as old as her daughter. What is the sum of their ages at present?

- A 75
- B 60
- C 85
- D 65

Answer: C

Explanation:

Let the age of mother and father be $12x$ and $5x$ respectively

According to the question,

$$\frac{(12x+10)}{(5x+10)} = \frac{2}{1}$$

$$12x + 10 = 10x + 20$$

$$2x = 10$$

$$x = 5$$

Therefore, required sum = $12x + 5x = 17x = 85$ years

Question 16

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

Statements:

- 1) Some flats are apartments.
- 2) No apartment is a hall.
- 3) Some halls are rooms.

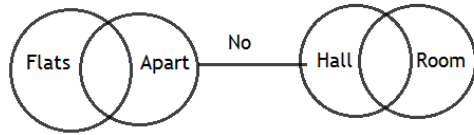
Conclusions:

- I. At least some rooms are flats.
- II. No apartment is a room.

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

Answer: A

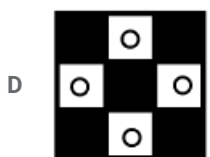
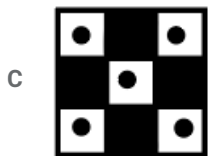
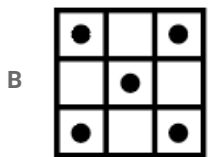
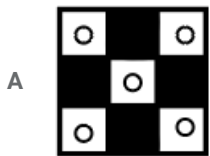
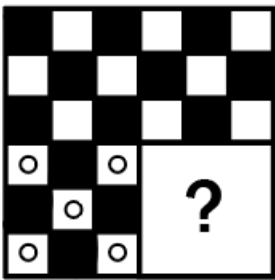
Explanation:



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Question 17

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



Answer: D

Explanation:

If we see the figure then we see option D figure will complete the pattern.

Question 18

Where is the Forest Research Institute located?

- A Dehradun
- B New Delhi
- C Lucknow
- D Bhopal

Answer: A

Question 19

Find the remainder when $(12^{13} + 12)$ is divisible by 13.

- A 11
- B 2
- C 12
- D 1

Answer: A

Explanation:

$$(12^{13} + 12) \div 13$$

We can write this as

$$\frac{12^{13}}{13} + \frac{12}{13}$$

Negative remainder for $\frac{12^{13}}{13} = -1^{13} = -1$

Negative remainder for $\frac{12}{13} = -1$

So, $-1 + -1 = -2$

Therefore, required remainder = $13 - 2 = 11$

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Question 20

The profit on the sale of a product is 25%. What will be the loss per cent, if the values of cost price and selling price are interchanged?

- A Loss of 16%
- B Loss of 25%
- C Loss of 12%
- D Loss of 20%

Answer: D

Explanation:

let CP=100. PROFIT=25% SO SP=125.

now interchange CP and SP.

CP=125 SP =100

LOSS=25.

LOSS% = $25/125 \times 100 = 20\%$

SHORTCUT METHOD.

$25\% = 1/4$ so CP= 4 SP= 5

INTERCHANGE

CP=5 SP=4 so loss = $1/5 = 20\%$

Question 21

Which of the following is a host in the life cycle of tape worm?

- A Rabbit
- B Monkey
- C Fish
- D Pig

Answer: D

Question 22

In what ratio should water be mixed with some milk to gain $16\frac{2}{3}\%$ on selling it at cost price?

- A 1 : 6
- B 2 : 3
- C 6 : 1
- D 3 : 4

Answer: A

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Question 23

Find the ODD one out from the given options.

- A 3 : 12
- B 1 : 2
- C 2 : 5
- D 4 : 17

Answer: A

Explanation:

3:12 is not in its simplified form

its simplified form is 1:4.

rest 3 ratios are in their simplified form..

Question 24

Mani is facing east. He looks time in his watch, it shows as 3 O'clock. Which direction do hour and minute hands point respectively?

- A West and north
- B South and east
- C East and north
- D South and west

Answer: B

Question 25

Which of the following cities was adjudged India's cleanest city for the third straight year in 2019?

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

Answer: D

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Question 26

Find the median value for the number of goals in 10 matches 1, 3, 2, 5, 8, 6, 4, 7, 1 and 9.

- A 4
- B 8
- C 7
- D 4.5

Answer: D

Explanation:

arrange the numbers in ascending order 1 1 2 3 4 5 6 7 8 9

median= middle term after arranging in ascending order in case of odd number terms.

for even number terms mean of middle two terms.

so middle term is 4 and 5 , average =4.5.

Question 27

Which of the following diseases affects the blood cells in the human body?

- A Meningitis
- B Polio
- C Small pox
- D Leukemia

Answer: D

Question 28

Which state of India is famous for the snake boat races?

- A Karnataka
- B Andhra Pradesh
- C Maharashtra
- D Kerala

Answer: D

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Question 29

Balaji walks 8 m straight and took left turn to cover a distance of 5 m. Again he took left and he is facing north. Which direction is he now from the starting point?

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

Answer: B

Question 30

Sort the following materials in ascending order of their respective refractive indices - Water, Glass, Air.

- A Glass, Water, Air
- B Water, Air, Glass
- C Air, Water, Glass
- D Glass, Air, Water

Answer: C

Question 31

A mixture of sand and sugar is an example of-

- A Heterogeneous mixture

- B Suspension
- C Colloidal solution
- D Homogeneous mixture

Answer: A

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Question 32

The term "Bogey" is associated with-

- A Hockey
- B Golf
- C Swimming
- D Tennis

Answer: B

Question 33

Find the ODD one out from the given options.

- A 125
- B 729
- C 1321
- D 27

Answer: C

Explanation:

125 729 27 are CUBES of 5 9 and 3. 1321 is not a cube. 1331 is cube of 11.

Question 34

What are the names of the three bones in the middle ear?

- A Radius, ulna, hammer
- B Femur, hammer, tibia
- C Hammer, anvil, stirrup
- D Humerus, clavicle, stirrup

Answer: C

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Question 35

In the reaction $MgO + CO \rightarrow Mg + CO_2$, the substance oxidised is-

- A Magnesium
- B Magnesium oxide
- C Carbon dioxide
- D Carbon monoxide

Answer: D

Question 36

Which of the following cities is located on the banks of the river Gomati?

- A Prayagraj
- B Kanpur
- C Ghaziabad
- D Lucknow

Answer: D

Question 37

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

Eight persons— M, N, O, P, Q, R, S and T are sitting around a circular table for a meeting facing center. M is second to the right of S who is third to the right of N. P is second to the left of R who sits between S and M. O is not a neighbour of N or Q.

Which of the following is the CORRECT position of Q?

- A To the immediate right of P
- B To the immediate right of N
- C Second to the right of N
- D To the immediate left of N

Answer: B

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Question 38

ECG senses the electrical forces produced by-

- A Stomach
- B Heart
- C Kidney
- D Brain

Answer: B

Question 39

The organ of Corti is concerned with-

- A Seeing
- B Hearing
- C Lactic acid
- D Balancing

Answer: B

Question 40

Find the ODD one out from the given options.

- A P
- B D
- C E
- D B

Answer: C

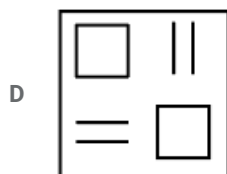
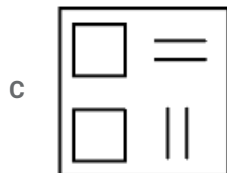
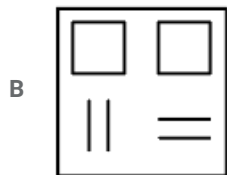
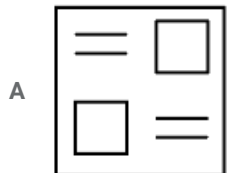
Explanation:

P D B are consonants and E is a vowel.

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Question 41

Find the ODD one out from the given options.



Answer: A

Explanation:

in option B C D parallel lines are perpendicular to each other , IN OPTION A lines are parallel to each other.

Question 42

Find the least number to be added to 1780 to make the sum a perfect square.

- A 69
- B 46
- C 72
- D 49

Answer: A

Explanation:

40 - 1600

41 - 1681

42 - 1764

43 - 1849

so 69 should be added to 1780.

Question 43

What is the value of $\cos 55^\circ + \sin 55^\circ$?

- A $2 \sin 35^\circ$
- B $2 \cos 35^\circ$
- C $\sqrt{2} \cos 10^\circ$
- D $2 \sin 10^\circ$

Answer: C

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Question 44

A number when divided by 10, 9 and 8 separately leaves remainders 9, 8 and 7 respectively. What is the least of such numbers?

- A 359
- B 719
- C 353
- D 1359

Answer: A

Explanation:

NUMBER = LCM OF 10 9 8 - k, $k=10-9, k=9-8, k=8-7$, so here $k=1$

=360-1=359

Question 45

Find the missing group of alphabets in the following series.

JD, LI, (...), SP, XR

- A OM
- B DP
- C WC
- D GT

Answer: A

Explanation:

For 1 letter $J+2=L$, $L+3=O$, $O+4=S$, $S+5=X$

For 2 letter $D+5=I$, $I+4=O$, $O+3=P$, $P+2=R$. SO missing pair is OM

Question 46

If 9 men and 12 boys can do a piece of work in 4 days and 4 men and 16 boys can do the same piece of work in 6 days, how long will 6 men and 24 boys take to complete the same work?

- A 4 days
- B 7 days
- C 6 days
- D 5 days

Answer: A

Explanation:

$$(9M + 12B) * 4 = (4M + 16B) * 6$$

$$36M + 48B = 24M + 96B$$

$$1M = 4B$$

now 6M and 24B will take . $24B = 6M$ so it equals to $6M + 6M = 12M$.

and 9M and 12B, $12B = 3M$, $= 3M + 9M = 12M$.

SO when 12M takes 4 days so $6M + 24B = 12M$ TAKES 4 DAYS.

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Question 47

Which of the following is the first member of alkyne homologous series?

- A Ethene
- B Ethyne
- C Propyne
- D Methane

Answer: B

Question 48

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

MOQ : STW :: ACE : ?

- A HKG
- B HIK
- C GHK
- D KIH

Answer: C

Explanation:

MOQ is coded as STW

M +6 S

O+5 T

Q+6 W.

so ACE will be written as GHK

Question 49

If object is placed at 25 cm in front of a concave mirror of focal length 15 cm, then find out the image distance v.

- A -32.5 cm
- B 38 cm
- C -37.5 cm
- D 32.5 cm

Answer: C

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Question 50

In a certain code, 'NATION' is coded as 'OCWMTT'. How would 'COUNTRY' be written in that code?

- A DCXRYCF
- B DPXRYXF
- C DQXRYXF
- D DCXRYXF

Answer: C

Explanation:

NATION is written as OCWMTT .

NO +1

ABC +2

TUVW +3

IJKLM +4


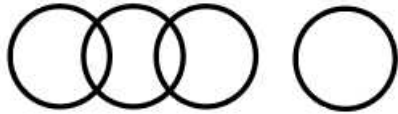
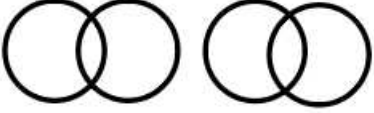
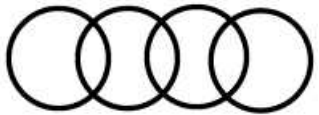
OPQRST +5

NOPQRST +6

so for COUNTRY Code will be DOXRYXF

Question 51

Choose the figure that best represents the relationship among the classes given below.
Word, Sentence, Alphabet, Paragraph

- A 
- B 
- C 
- D 

Answer: A

Explanation:

the alphabets are A to Z . Alphabets will form word . Words together will form sentences and sentences will form paragraph.

Question 52

When was the Planning Commission set up?

- A 1947
- B 1965
- C 1975
- D 1950

Answer: D

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Question 53

What is the area of a circular track that runs around a circle with circumference 440 m, having a width of 7 m?

- A $3856 m^2$
- B 3234 .
- C $3900 m^2$

D $3204 m^2$

Answer: B

Explanation:

$$\text{Circumference} = 2 \times \frac{22}{7} \times R = 440$$

so Radius of circle = 70

now radius of track = 7 so RADIUS of bigger circle = 77.

AREA of TRACK = AREA OF BIGGER CIRCLE - AREA OF SMALL CIRCLE

$$= \frac{22}{7} \times 77 \times 77 - \frac{22}{7} \times 70 \times 70$$

$$= 3234 m^2$$

Question 54

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

Statements:

- 1) No lion is tiger.
- 2) No tiger is leopard.

Conclusions:

- I. No lion is leopard.
- II. All leopards are lions.

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

Answer: B

Question 55

When is 'World Water Day' observed?

- A March 23
- B March 21
- C March 20
- D March 22

Answer: D

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Question 56

What does the power rating 100 W on an electric bulb mean?

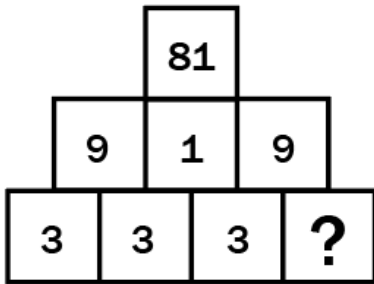
- A The bulb consumes electrical energy of 100 kilo Joule per hour
- B The bulb consumes electrical energy of 100 Joule per minute
- C The bulb consumes electrical energy of 100 Joule per hour

D The bulb consumes electrical energy of 100 Joule per second

Answer: D

Question 57

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



A 4

B 2

C 3

D 1

Answer: C

Explanation:

To make result 81 of each row in figure 3 is required

row 1=81

row 2= $9 \times 9 = 81$

row 3= $3 \times 3 \times 3 \times 3 = 81$

Question 58

The inspiration of Liberty, Equality and Fraternity was derived from-

A French Revolution

B Indian Revolution

C American Revolution

D Russian Revolution

Answer: A

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Question 59

If 'MISTAKE' is coded as 9765412 and 'RANKED' is coded as 348120, how is 'DISTANT' coded?

A 0756485

B 0765485

C 0765458

D 0765845

Answer: B

Question 60

Who among the following is NOT a hockey player?

- A Jaipal Singh
- B Birendra Lakra
- C Manohar Topno
- D Mishal Benjamin Lakra

Answer: D

Question 61

The ratio between the length and the breadth of a rectangular park is 3 : 2. If a man cycling along the boundary of the park at the speed of 12 km/h completes one round in 8 minutes, find the area of the park in square metres.

- A 153600 m^2
- B 15360 m^2
- C 30720 m^2
- D 307200 m^2

Answer: A

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Question 62

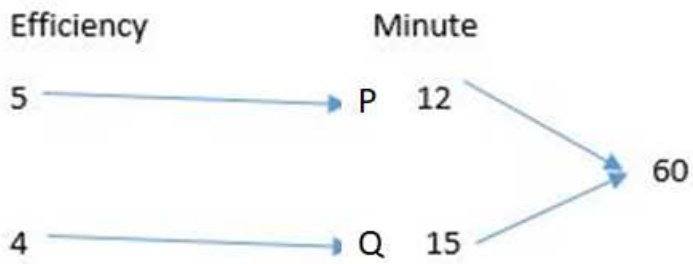
Two pipes P, Q can fill a cistern in 12 and 15 minutes separately. P is open for 4 minutes and turned off. In how much time will the remaining part be filled by Q?

- A 9 minutes
- B 11 minutes
- C 10 minutes
- D 12 minutes

Answer: C

Explanation:

Two pipes, P and Q, fill a tank in 12 Min and 15 min respectively. That means,
Let total tank capacity 60L



that mean

P filled tank in 1 minute=5L

Q filled tank in 1 minute=4L

tank filled by P in 4 min is = 4×5

= 20

Then Pipe P is closed

So tank Capacity left $60-20=40$

i.e filled by Q only

Total time taken by Q to filled remaining part of tank is

$\frac{\text{total tank capacity left}}{\text{Efficiency of Q}}$

= $\frac{40}{4}$

=10 minutes

So, the time taken by Q is 10 minutes

Question 63

Rs.800 becomes Rs.956 in 3 years at a certain rate of Simple Interest. If the rate of interest is increased by 4%, what amount will Rs.800 become in 3 years?

- A Rs.1052
- B Rs.1025
- C Rs.1020.80
- D Rs.1054

Answer: A

Question 64

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

- A ZFWOU
- B ZWFOG
- C ZWUOU
- D ZWFOR

Answer: B

Explanation:

'ABC DEF' is written as 'ZYX WVU'

from given we get

A=Z B=Y C=X D=W E=V F=U

so from this we get each alphabet replaced by same position alphabet from reverse order.

A=Z

B=Y

C=X

D=W

E=V

F=U

G=T

H=S

I=R

J=Q

K=P

L=O

M=N

So ADULT=ZWFOG

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Question 65

Complete the series.

540, 270, 90, 45, 15, (...)

A 6.5

B 7.9

C 6.8

D 7.5

Answer: D

Question 66

A clock started at noon. By 10 minutes past 7, the hour-hand will move through

A 200°

B 215°

C 60°

D 210°

Answer: B

Question 67

Find the missing group of alphabets in the following series.

LY, IP, GI, (...), TA

- A IP
- B VT
- C DL
- D HD

Answer: D

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Question 68

A cuboid with dimensions $l \times b \times h$ is cut to get planks measuring $l \times 0.5b \times 0.4h$. How many planks will you get?

- A 5
- B 4
- C 20
- D 10

Answer: A

Question 69

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

Seven persons— P, Q, R, S, T, U and V like different colours—orange, blue, white, red, green, black and yellow, but not necessarily in the same order. They all have different hobbies (or they like different activities) driving, swimming, sailing, shopping, running, dancing and camping, but not necessarily in the same order.

The hobby of S is driving. The one whose hobby is shopping likes red colour. P likes yellow colour. The one whose hobby is camping likes green colour. The hobby of U is sailing. Neither S nor U likes black colour. The one whose hobby is dancing, and swimming does not like black colour. The hobby of P is not swimming. The one whose hobby is swimming does not like orange and white colour; S does not like orange colour. The hobby of T is neither running nor shopping. T does not like green colour. V does not like green and black colour. The hobby of Q is not camping.

Who among the following has the hobby of camping?

- A R
- B Q
- C V
- D P

Answer: A

Question 70

Which of the following affects the stomach?

- A Asthma

- B Colic
- C Spondylitis
- D Migraine

Answer: B

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Question 71

What is the expansion of IRNSS?

- A Indian Rural Navigation Searching System
- B Indian Regional Navigation Satellite System
- C International Rocket Navigation Satellite System
- D Indian Renal and Nephrological Scientific Studies

Answer: B

Question 72

A number when divided by a divisor, leaves a remainder of 24. When twice that number is divided by the same divisor, the remainder is 15. What is the divisor?

- A 33
- B 23
- C 9
- D 35

Answer: A

Explanation:

Let's just assume the number be N

and the divisor be D

we know that

$$\text{Number} = \text{Divisor} \times \text{quotient} + \text{Remainder}$$

$$N = D \times K + 24, \text{ (where k is the quotient)}$$

When twice the number that is 2N

$$2 \times N = 2 \times D \times k + 48 \quad [\text{i.e } 2 \times 24 = 48]$$

As the remainder of 2N divided by D is 15, therefore 48 must go into the quotient in the form $\frac{33}{D}$

Therefore the divisor is $48 - 15 = 33$

Question 73

Rutherford's alpha particles scattering experiment resulted into the discovery of-

- A Proton
- B Nucleus in the atom

C Electron

D Neutron

Answer: B

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Question 74

If $x\%$ of $10.8 = 32.4$, then find 'x'.

A 100

B 400

C 300

D 200

Answer: C

Question 75

In a school, 12% of the total number of students are good in sports. $\frac{3}{4}$ th of the total number of students are interested in co-curricular activities, 10% of the total number like music. The remaining 15 students do not want to participate in the above activities. What is the total number of students?

A 450

B 500

C 400

D 600

Answer: B

Question 76

On a sum of money, the Simple Interest for 2 years is Rs.660 while the Compound Interest for two years is Rs.696.30, the rate of interest being the same. Find the rate of interest.

A 10%

B 12.75%

C 11%

D 13%

Answer: C

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Question 77

Goitre is a disease caused by-

A Deficiency of iodine

- B Defective growth hormone
- C Overeating
- D Excessive secretion of thyroxin

Answer: A

Question 78

Find the LCM of two consecutive integers a and b.

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

Answer: D

Question 79

If the frequency of a sound wave is 50 Hz, then what is its time period?

- A 0.05 s
- B 0.2 s
- C 0.5 s
- D 0.02 s

Answer: D

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Question 80

Two inlet pipes P and Q can fill a tank in 10 hours and 12 hours separately. There is an outlet R that can let out water from the tank fully in 30 hours. If all the pipes are opened simultaneously, how much time will it take to fill the tank completely?

- A 5 hours 30 minutes
- B 6 hours 40 minutes
- C 14 hours 45 minutes
- D 6 hours 30 minutes

Answer: B

Question 81

Who among the following is an Indian social activist associated with Narmada Bachao Andolan?

- A Silverine Swer
- B Patricia Mukhim
- C Medha Patkar

D V. Mohini Giri

Answer: C

Question 82

$$2 + \frac{1}{3 \cdot \frac{1}{4} + \frac{1}{5}}$$

Evaluate:

A $\frac{157}{68}$

B $\frac{21}{110}$

C $\frac{5}{46}$

D $\frac{68}{157}$

Answer: D

Explanation:

Simplify the equation

$$2 + \frac{1}{3 \cdot \frac{1}{4} + \frac{1}{5}}$$

$$= \frac{1}{2 + \frac{1}{\frac{68}{21}}}$$

$$= \frac{1}{2 + \frac{21}{68}}$$

$$= \frac{1}{\frac{157}{68}}$$

$$= \frac{68}{157}$$

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Question 83

If $3x - y = 5$, find the value of $\frac{8^x}{2^y}$.

A 64

B 32

C 16

D 256

Answer: B

Explanation:

Given that

$$\frac{8^x}{2^y} \quad \text{equation 1}$$

$$3x - y = 5 \quad \text{equation 2}$$

Now find the value of x

$$3x = 5 + y$$

$$x = \frac{5+y}{3}$$

Now put the value of x in equation 1

we get

$$= \frac{8^{5+y}}{2^y}$$

we know that $2^3 = 8$ equation 3

Using the above equation 3

$$= \frac{2^{3(5+y)/3}}{2^y}$$

$$= \frac{2^{5+y}}{2^y}$$

Now minimize the equation

$$= 2^{(5+y-y)}$$

$$= 2^5$$

$$= 32 \quad \text{Ans}$$

Question 84

Which word will best complete the relationship given below?

Grain : Stock :: Paper : ?

- A String
- B Collection
- C Heap
- D Bundle

Answer: D

Question 85

In blast furnace, iron oxide is reduced by-

- A Limestone
- B Carbon monoxide
- C Silica
- D Carbon

Answer: B

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Question 86

What happens to the resistance of all pure metals on raising the temperature?

- A Remains unaffected
- B Becomes negligible
- C Increases

D Decreases

Answer: C

Question 87

If ' \times ' means '+', '+' means ' \times ' and '-' means ' \div ', then find the value of $(1 \times 2) + (3 \times 4) - (4 \times 5) + 9$.

A 9

B 21

C 3

D 12

Answer: B

Question 88

The chemical symbol P stands for-

A Polonium

B Palladium

C Potassium

D Phosphorus

Answer: D

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Question 89

Ages of a mother and daughter are in the ratio 9 : 2. The daughter was born when the mother was 28 years. How old is the daughter?

A 4 years

B 6 years

C 8 years

D 12 years

Answer: C

Question 90

20 pens costing Rs.60 are sold at 5 pens for Rs.25. What is the profit per cent?

A $33\frac{1}{3}\%$

B 25%

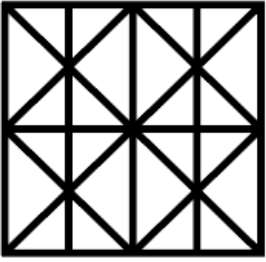
C $66\frac{2}{3}\%$

D 15%

Answer: C

Question 91

How many straight lines are there in the given figure?



- A 16
- B 14
- C 19
- D 23

Answer: B

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Question 92

Hema starts from her home eastward in order to go to school. She took right turn and took left to reach school. Which direction was her school from home?

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

Answer: C

Question 93

The most abundant element in the human body is-

- A Oxygen
- B Nitrogen
- C Carbon
- D Calcium

Answer: A

Question 94

What is the light on the moon which makes it visible to us from Earth?

- A Moon gets light from artificial satellites revolving around the Earth
- B Moon gets light from Earth

C Sunlight falls on moon and the illuminated part of the moon is visible to us

D Moon has it's own light

Answer: C

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Question 95

Complete the series.

AAZ, FEX, KIU, POQ, (...)

A XUP

B WUO

C UUR

D UUL

Answer: D

Question 96

In a 300 m race, P beats Q by 22.5 m or 6 seconds. What is Q's time over the course?

A 80 seconds

B 86 seconds

C 78 seconds

D 76 seconds

Answer: A

Question 97

Which of the following is a popular folk dance of Maharashtra?

A Dandiya

B Bhangra

C Garba

D Tamasha

Answer: D

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Question 98

The structure of the eye which serves to refract and focus light rays upon retina is called -

A Cornea

B Lens

C Pupil

D Iris

Answer: B

Question 99

Which of the following exhibits maximum number of valence electrons?

A Na

B P

C Al

D Si

Answer: B

Question 100

Find the median of the discrete values.

$(a + 4), (a - 3.5), (a - 2.5), (a - 3), (a - 2), (a + 0.5), (a + 5)$ and $(a - 0.5)$.

A $a - 0.75$

B $a - 1.5$

C $a - 1.25$

D $a - 2.5$

Answer: C

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