



RRB JE 22nd May 2019 Shift-3

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Instructions

For the following questions answer them individually

Question 1

With which sport is the term 'silly point' associated?

- A Badminton
- B Football
- C Hockey
- D Cricket

Answer: D

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Question 2

Which Indian cricket ground hosted the first ever Test match in India?

- A Feroz Shah Kotla
- B Bombay Gymkhana
- C Chepauk Stadium
- D Eden Gardens

Answer: B

Question 3

Which of the following dances is NOT a classical dance of India?

- A Manipuri
- B Bugaku
- C Odissi
- D Kuchipudi

Answer: B

Question 4

_____ is the matter or substance through which sound is transmitted.

- A Surrounding
- B Environment
- C Interface
- D Medium

Answer: D

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Question 5

Which of the following is TRUE about Mass and Weight?

- A Mass is a scalar and weight is a vector
- B Mass is a vector and weight is a scalar
- C Both are scalar quantities
- D Both are vector quantities

Answer: A

Question 6

Noise pollution is measured in

- A Ampere
- B Ohm
- C Joule
- D Decibel

Answer: D

Question 7

Which of the following banks became the third largest Bank in India in April 2019?

- A Axis Bank
- B SBI Bank
- C HDFC Bank
- D Bank of Baroda

Answer: D

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Question 8

Which of the following Articles deals with 'Prohibition of traffic in human beings and forced labour'?

- A Article 23
- B Article 29
- C Article 27
- D Article 30

Answer: A

Question 9

If $2508 \div 12.54 + (X \times 11) = 200$, then find the value of 'X'.

- A 2.5
- B 4
- C 0
- D 3.5

Answer: C

Explanation:

$$2508 \div 12.54 + (X \times 11) = 200$$

$$\frac{250800}{1254} + 11x = 200$$

$$200 + 11x = 200$$

solving $x = 0$

Question 10

Simplify $\tan(60 - \theta) - \cot(30 + \theta)$?

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

Answer: C

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Question 11

Which of these blood components carries oxygen?

- A Plasma
- B Platelet
- C WBC
- D RBC

Answer: D

Question 12

The sum of the atomic masses of all the atoms in a molecule of the substance is?

- A Formula mass
- B Atomic mass

- C Mole
- D Molecular mass

Answer: D

Question 13

What should be the minimum age to get the Rajya Sabha membership?

- A 18 years
- B 25 years
- C 30 years
- D 35 years

Answer: C

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Question 14

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

Eight friends—P, Q, R, S, T, U, V and W are sitting around a circular table facing the center but not necessarily in the same order. Each one of them wears different colours of shirts—blue, green, red, black, yellow, white, purple and pink. P sits third to the right of the one who wears pink, and only two people sit between the one who wears pink and W. Those who wear yellow and green are the immediate neighbours. Neither P nor W wears yellow or green. The one who wears yellow is not an immediate neighbour of the one who wears pink. The one who wears blue sits second to the left of T. T is not an immediate neighbour of W. The one who wears blue is an immediate neighbour of both those who wear white and purple. The one who wears purple sits third to the right of Q. Q does not wear yellow. R sits to the immediate right of the one who wears red. P does not wear red. U is not an immediate neighbour of P. V is not an immediate neighbour of the one who wears blue.

The person who wears _____ sits exactly between those who wear pink and white.

- A Blue
- B Green
- C Yellow
- D Red

Answer: D

Question 15

What is 'Halitosis' commonly known as?

- A Blood Pressure
- B Head ache
- C Bad breath
- D Flu

Answer: C

Explanation:

Bad breath, also known as halitosis, is a symptom in which a noticeably unpleasant breath odour is present. Of those who have

genuine **bad breath**, about 85% of cases come from inside the mouth. The remaining cases are believed to be due to disorders in the nose, sinuses, throat, lungs, esophagus, or stomach.

Question 16

Find the missing number in the following series. 4, 7, 12, (...), 28, 39

- A 24
- B 19
- C 14
- D 16

Answer: B

Explanation:

$$4 + 3 = 7$$

$$7 + 5 = 12$$

$$12 + 7 = 19$$

$$19 + 9 = 28$$

$$28 + 11 = 39$$

$$4, 7, 12, 19, 28, 39$$

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Question 17

A gain of 12% is got by selling an article for Rs.3360. What should be the selling price, if the profit aimed is only 8%?

- A Rs.3020
- B Rs.3200
- C Rs.3040
- D Rs.3240

Answer: D

Explanation:

given SP = 3360

gain = 12%

$$CP = 3360 \times \frac{100}{112} = 3000$$

now CP = 3000

gain = 8%

$$\text{then } SP = 3000 \times \frac{108}{100} = 3240$$

Question 18

If $8 \# 2 @ 5 = 21$ and $4 \# 6 @ 2 = 26$, then what will be $3 \# 7 @ 9$?

- A 40
- B 30

C 47

D 52

Answer: B

Explanation:

here # = \times

@ = +

substitute and solve $3 \# 7 @ 9 = 3 \times 7 + 9$

=30

Question 19

Functional group -CHO is present in which of the following?

A Aldehyde

B Ketone

C Carboxylic acid

D Alcohol

Answer: A

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Question 20

Which word will best complete the relationship given below? Charminar : India :: Pyramid : ?

A Vatican

B England

C Canada

D Egypt

Answer: D

Question 21

The population of a city has been increasing at 5% every year. The present population is 185220. What was its population 3 years back?

A 180500

B 180000

C 160000

D 178000

Answer: C

Explanation:

let the population 3 years back be x

according to the question

$$x \times \frac{105}{100} \times \frac{105}{100} \times \frac{105}{100} = 185220$$

$$x = \frac{185220 \times 20 \times 20 \times 20}{21 \times 21 \times 21}$$

solving x = 160000

Question 22

The disease caused by deficiency of protein in children is called?

- A Rickets
- B Kwashiorkor
- C Pellagra
- D Beri-Beri

Answer: B

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Question 23

A number of two-digits has 3 for its unit's digit, and the sum of the digits is $\frac{1}{7}$ of the number itself. Find the number.

- A 43
- B 53
- C 73
- D 63

Answer: D

Question 24

The angle of elevation of a hot-air balloon climbing vertically changes from 30° at 10:00 AM to 60° at 10:02 AM as observed from a point 300 m away from the take-off point. What is the upward speed of the balloon?

- A 2.18 m/s
- B 2 m/s
- C 3.4 m/s
- D 2.9 m/s

Answer: D

Explanation:

$$H_1 = 300 \times \tan 30$$

$$H_2 = 300 \times \tan 60$$

Now,

$$H_2 - H_1 = 300 \times (\tan 60 - \tan 30) = 300 \times 1.155 = 346.5$$

$$\text{Time duration} = 10:02 - 10:00 = 2 \text{ min} = 120 \text{ sec.}$$

$$\text{Speed} = \text{height/time} = 346.5/120 = 2.9 \text{ m/s}$$

Question 25

If 'MISTAKE' is coded as 9765412 and 'NAKED' is coded as 84123, how is 'INTIMATE' coded?

- A 78698365
- B 89786145
- C 78579452
- D 79438163

Answer: C

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Question 26

Which of the following can cause damage to buildings?

- A Shock waves produced by supersonic aircraft
- B Subsonic sound
- C Infrasound
- D Sound at about 10kHz

Answer: A

Question 27

_____ is the physical quantity of the substance which is numerically equal to the resistance of a rod of that substance which is 1 m long and 1 sq m in cross-section.

- A Conductance
- B Charge
- C Resistance
- D Resistivity

Answer: D

Question 28

Which of the following does NOT belong to the plant kingdom?

- A Tree
- B Fungus
- C Brush
- D Scrub

Answer: B

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Question 29

In which district of Jharkhand is Tagore Hill located?

- A Simdega
- B Ranchi
- C Gumla
- D Lohardaga

Answer: B

Question 30

Two numbers are in the ratio 3 : 5. Their LCM is 75. What is their HCF?

- A 4
- B 3
- C 15
- D 5

Answer: D

Explanation:

Two numbers are in the ratio 3 : 5

let the numbers be $3x$ and $5x$

$$\text{LCM}(3x, 5x) = 15x$$

given $\text{LCM} = 75$

$$15x = 75$$

$$x = \frac{75}{15}$$

$$x = 5$$

numbers are 15 and 25

product of two numbers = product of LCM and HCF

$$15 \times 25 = 75 \times \text{HCF}$$

solving $\text{HCF} = 5$

Question 31

Which word will best complete the relationship given below? Volume : Litre :: Length : ?

- A Hectare
- B Kilogram
- C Watt
- D Metre

Answer: D

Question 32

A homogeneous mixture of two or more substances is known as the?

- A Suspension
- B Fission
- C Solution
- D Colloids

Answer: C

Question 33

The mass number of deuterium is?

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

Answer: A

Question 34

Himawari-9 is a Japanese _____ satellite.

- A Ground
- B Navigation
- C Communication
- D Weather

Answer: D

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Question 35

Find the ODD one out from the given options.

- A Bharatanatyam
- B Kuchipudi
- C Lavani
- D Odissi

Answer: C

Question 36

A man walks from P to Q at the rate of 5 km/h and returns from Q to P at 3 km/h. What is his average speed for the whole journey?

- A 3.5 km/h
- B 8 km/h
- C 3.75 km/h
- D 3.25 km/h

Answer: C

Explanation:

here distance covered is same

therefore $averagespeed = \frac{2xy}{x+y}$

$x = 5 \text{ km/hr}$

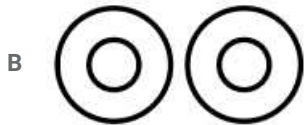
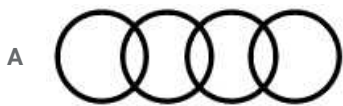
$y = 3 \text{ km/hr}$

$averagespeed = \frac{2 \times 5 \times 3}{5+3} = 3.75 \text{ km/hr}$

Question 37

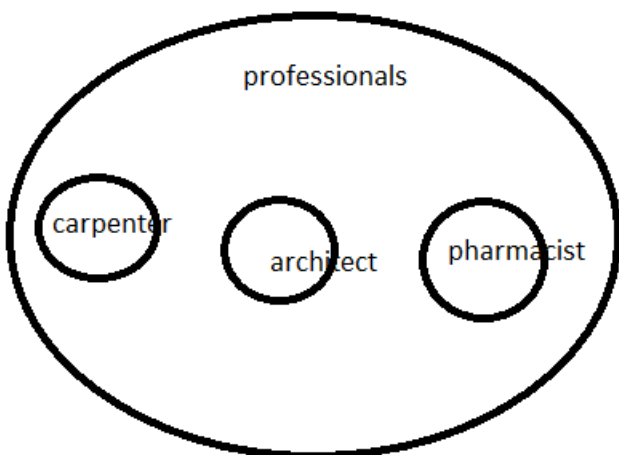
Choose the Figure that best represents the relationship among the classes given below?

Pharmacist, Professionals, Architects, Carpenters.



Answer: C

Explanation:



pharmacist , architects and carpenters are different professionals doing different jobs
so there is no relation between them . but all of these belongs to a common class professionals
hence option C represents the relationship

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Question 38

Find the wrong number in the following series.9, 15, 24, 34, 51, 69

- A 34
- B 51
- C 15
- D 24

Answer: A

Explanation:

$$9 + 6 = 15$$

$$15 + 9 = 24$$

$$24 + 12 = 36$$

$$36 + 15 = 51$$

$$51 + 18 = 69$$

thus wrong term is 34

Question 39

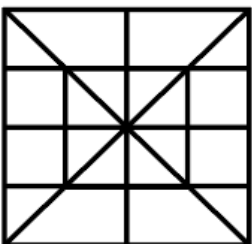
A group of similar organisms which are genetically distinct and reproductively isolated, is called a/an?

- A Species
- B Family
- C Class
- D Order

Answer: A

Question 40

How many Squares are there in the given figure?



- A 20
- B 11
- C 25

D 16

Answer: D

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Question 41

If $\sqrt{10}=3.16$, then find the value of $\sqrt{\frac{30}{9}}$

A $\frac{1}{8}$

B $\frac{1}{16}$

C $\frac{3}{16}$

D $\frac{1}{4}$

Answer: E

Question 42

42 horses consume 270 kg of corn in 27 days. If there are 21 horses only, then how many days will 300 kg of corn last?

A 45

B 60

C 72

D 48

Answer: B

Question 43

Find the ODD one out from the given options.

A 12 : 39

B 15 : 46

C 9 : 28

D 8 : 25

Answer: A

Explanation:

all options except A follows a certain pattern

$$15 : 46 \implies 15 \times 3 + 1 = 46$$

$$9 : 28 \implies 9 \times 3 + 1 = 28$$

$$8 : 25 \implies 8 \times 3 + 1 = 25$$

but 12 : 39 is a wrong pattern

$$\text{correct one is } 12 : 37 \implies 12 \times 3 + 1 = 37$$

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Question 44

In which of the following Indian states is Dal Lake situated?

- A Himachal Pradesh
- B Uttar Pradesh
- C Gujarat
- D Jammu and Kashmir

Answer: D

Question 45

The total of ages of X, Y and Z is 27. X is 2 years older than Y and Y is twice as old as Z. What is the age of Y?

- A 12
- B 5
- C 8
- D 10

Answer: D

Explanation:

total of ages of X, Y and Z is 27

let age of Z be a

then age of Y = 2a

age of X = 2 + 2a

$$2 + 2a + 2a + a = 27$$

$$5a = 25$$

$$a = \frac{25}{5} = 5$$

$$\text{age of Y} = 2 \times 5 = 10$$

Question 46

P and Q enter into a partnership with investments of Rs.1400 and Rs.1800 respectively. They share half of the profit equally for running the business and the remaining profit in the ratio of their investments. If the difference in their shares of profits is Rs.47, what is the total profit?

- A Rs.752
- B Rs.954
- C Rs.804
- D Rs.504

Answer: A

Explanation:

Investments of P = Rs. 1400

Investments of Q = Rs. 1800

Profit share of P and Q = 1400 : 1800 = 7 : 9

The difference in their shares of profits = Rs.47

Difference in the ratio = 9 - 7 = 2 unit

$\Rightarrow 2 \text{ unit} = 47$

$\Rightarrow 1 \text{ unit} = 23.5$

Half profit = 7 + 9 = 16 unit = $16 \times 23.5 = 376$

Total profit = $376 \times 2 = \text{Rs.}752$

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Question 47

Buses come out of a bus terminus in intervals of 10 minutes at 20 km/h. A man coming from opposite direction towards the terminal meets the buses at intervals of 8 minutes. What is his speed?

- A 4 km/h
- B 5 km/h
- C 3.45 km/h
- D 6 km/h

Answer: B

Explanation:

let the speed of man = x km/hr

distance covered in 10 min at 20 km/hr = distance covered in 8 min at $(20 + x)$

$$20 \times \frac{10}{60} = \frac{8}{60} \times (20 + x)$$

$$200 = 160 + 8x$$

$$40 = 8x$$

$$x = 5 \text{ km/hr}$$

Question 48

National Income in India is measured in terms of?

- A Gross Domestic Product
- B Gross National Product
- C Net National Product at Market Price
- D Net National Product at Factor Cost

Answer: D

Question 49

One morning after sunrise, Kumar was standing in a ground facing a pole. The shadow of the pole fell exactly to his right. Which direction was he facing?

- A South
- B Data Inadequate

C West

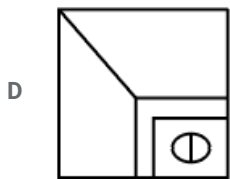
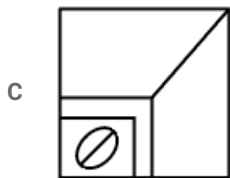
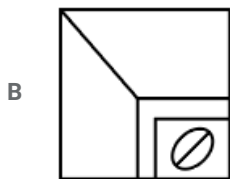
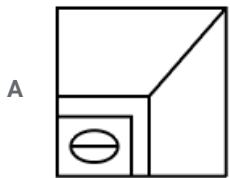
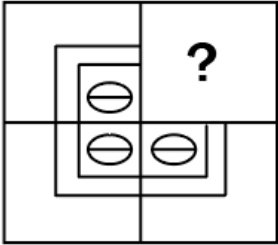
D East

Answer: A

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Question 50

choose from the alternatives the figure that best completes the pattern given below?



Answer: A

Question 51

A shopkeeper gives a discount of 10% once in 4 months. If a man purchases an article in this scheme for Rs.25515 in December, then what was the initial price in January?

A Rs.40000

B Rs.35000

C Rs.45000

D Rs.36000

Answer: B

Question 52

A train 120 m long crosses a platform of length 100 m in 10 seconds. What is its speed?

- A 100 km/h
- B 79.2 km/h
- C 72 km/h
- D 80 km/h

Answer: B

Explanation:

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

here distance = length of train + length of platform

$$= 120 + 100 = 220 \text{ m}$$

time $t = 10$ sec

$$speed = \frac{220}{10} = 22 \text{ m/sec}$$

$$22 \text{ m/sec} = 22 \times \frac{18}{5} = 79.2 \text{ km/hr}$$

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Question 53

If $\tan 2A = \cot(A - 18^\circ)$ and $2A$ is an acute angle, then find 'A'.

- A 36°
- B 28°
- C 18°
- D 24°

Answer: A

Explanation:

$$\tan 2A = \cot(A - 18^\circ)$$

$$\Rightarrow \cot(90 - 2A) = \cot(A - 18^\circ)$$

$$\Rightarrow 90 - 2A = A - 18$$

$$\Rightarrow A = 36$$

Question 54

An ophthalmologist is one who treats?

- A Bones
- B Limbs
- C Eyes

D Skin

Answer: C

Question 55

On a certain sum of money, the Compound Interest for 2 years is Rs.309 and the Simple Interest is Rs.300. Find the rate of interest per annum.

A 6%

B 8%

C 9%

D 7%

Answer: A

Explanation:

SI for 2 years = 300

SI for 1 year = $\frac{300}{2} = 150$

CI for 1 year = 150

CI for 2 years = 309

CI for 2 years = CI for 1st year + CI for 2nd year

CI for 2nd year = 309 - 150 = 159

CI for 2nd year - CI for 1st year = 159 - 150 = 9

after 1 year

amount = Rs 159

Principal = 150

$$A = P\left(1 + \frac{r}{100}\right)^2$$

$$\frac{159}{150} = \left(1 + \frac{r}{100}\right)^2$$

$$\frac{53}{50} = 1 + \frac{r}{100}$$

solving, $r = 6\%$

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Question 56

Two right circular cones of height 16.4 cm and 17.2 cm respectively have base radius of 8.4 cm. These two cones are melted and recast into a sphere. Find the diameter of the sphere.

A 8.2 cm

B 16.8 cm

C 8.6 cm

D 8.4 cm

Answer: B

Explanation:

sum of volume of 2 cones = volume of sphere

$$\frac{1}{3}\pi r_1^2 h_1 + \frac{1}{3}\pi r_2^2 h_2 = \frac{4}{3}\pi r^3$$

$$h_1 = 16.4 \text{ cm}, h_2 = 17.2 \text{ cm}$$

$$r_1 = r_2 = 8.4 \text{ cm}$$

substituting

$$\frac{1}{3}\pi \times 8.4^2 \times 16.4 + \frac{1}{3}\pi \times 8.4^2 \times 17.2 = \frac{4}{3}\pi \times r^3$$

$$\frac{1}{3}\pi 8.4^2 (16.4 + 17.2) = \frac{4}{3}\pi r^3$$

$$8.4^2 \times 33.6 = 4 \times r^3$$

$$r^3 = \frac{8.4 \times 8.4 \times 33.6}{4}$$

solving $r = 8.4$

$$\text{diameter} = 8.4 \times 2 = 16.8$$

Question 57

If the ratio of ages of A and B is 5 : 6 and sum of their ages is 55, what is the age of A?

- A 18
- B 15
- C 25
- D 30

Answer: C

Explanation:

ratio of ages of A and B is 5 : 6

sum of their ages = $5x + 6x = 11x$

$$11x = 55$$

$$x = \frac{55}{11} = 5$$

$$\text{age of A} = 5 \times 5 = 25$$

Question 58

Perimeter of an isosceles triangle is 32 cm. The base is $\frac{6}{5}$ times the equal side. What is the area?

- A 64cm^2
- B 48cm^2
- C 57cm^2
- D 39cm^2

Answer: B

Explanation:

let one side be x

then the equal sides be $2x$

base is $\frac{6}{5}$ times of $x = \frac{6}{5}x$

perimeter = 32 (given)

$$\text{perimeter} = 2x + \frac{6}{5}x$$

$$32 = 2x + \frac{6}{5}x$$

solving $x = 10$

now sides are 10, 10, 12 ($\frac{6}{5} \times 10$)

$$\begin{aligned} \text{area} &= \frac{1}{4}b\sqrt{P(P-2b)} \\ &= \frac{1}{4}12\sqrt{32(32-2 \times 12)} \\ &= 48\text{cm}^2 \end{aligned}$$

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Question 59

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

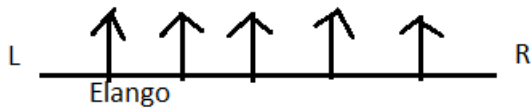
Five friends Arun, Bala, Cheenu, Dinesh and Elango are sitting on a bench facing north. Arun is sitting next to Bala. Dinesh is sitting next to Cheenu. Dinesh is not sitting with Elango. Elango is on the left end of the bench. Cheenu is on the second position from the right. Arun sits to the right of Bala. What is the position of Dinesh?

- A Second from left
- B Third from right
- C Extreme left
- D Extreme right

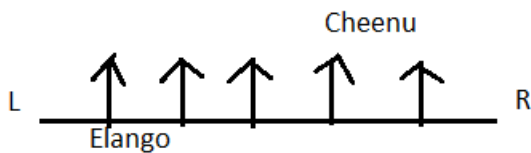
Answer: D

Explanation:

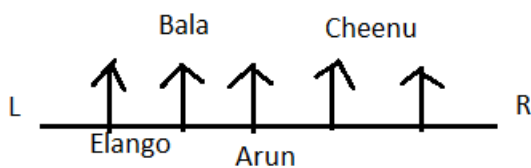
step 1 : Elango is on the left end of the bench



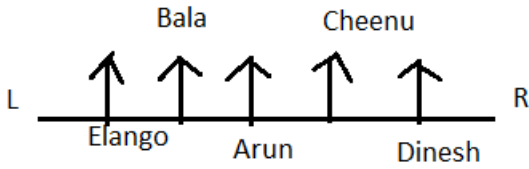
step 2 : Cheenu is on the second position from the right.



step 3 : Arun is sitting next to Bala. Arun sits to the right of Bala.



step 4 : Dinesh is sitting next to Cheenu. Dinesh is not sitting with Elango



position of Dinesh is extreme right end

Question 60

Which of these is NOT a bone in the human body?

- A Axe
- B Hammer
- C Anvil
- D Stirrup

Answer: A

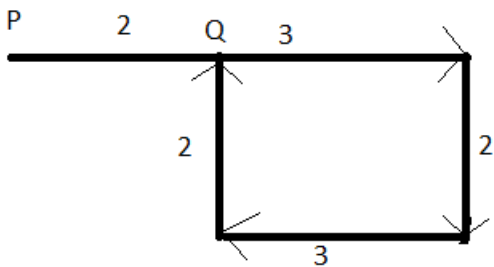
Question 61

From a point 'P', Rohit walks for 5 km towards east direction. He then turns right and walks for 2 km. Again he turns right and walks for 3 km; He then again turns right and walks for 2 km to reach a point 'Q'. What is the distance between the points 'P' and 'Q'?

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

Answer: C

Explanation:



distance between the points 'P' and 'Q' = 2km

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Question 62

From a point 'P', Rohit walks for 5 km towards east direction. He then turns right and walks for 2 km. Again he turns right and walks for 3 km; He then again turns right and walks for 2 km to reach a point 'Q'. What is the distance between the points 'P' and 'Q'?

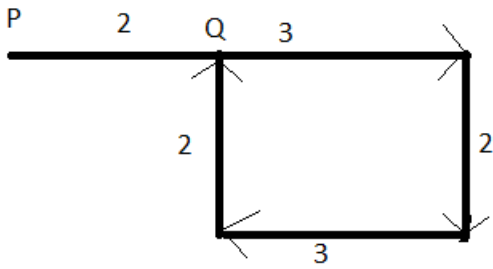
- A 4 km
- B 1 km

C 2 km

D 3 km

Answer: C

Explanation:



distance between the points 'P' and 'Q' = 2 km

Question 63

What comes in the place of *?

$$\frac{1}{4} + \frac{1}{6} - \frac{1}{8} = * + \frac{1}{12}$$

A $\frac{5}{12}$

B $\frac{7}{12}$

C $\frac{5}{24}$

D $\frac{7}{24}$

Answer: C

Explanation:

$$\frac{1}{4} + \frac{1}{6} - \frac{1}{8} - \frac{1}{12} = *$$

solving $1 + 1 - 1 - 1 + \left(\frac{1}{4} + \frac{1}{6} - \frac{1}{8} - \frac{1}{12}\right)$

$$\frac{6+4-3-2}{24} = \frac{5}{24}$$

Question 64

Complete the series. ZZ, TX, NU, HP, (...)

A PR

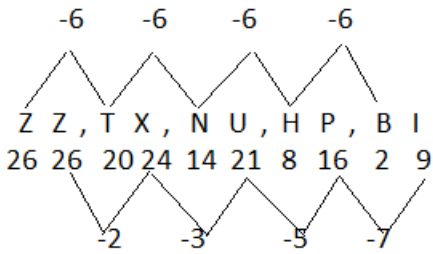
B MC

C BI

D AG

Answer: C

Explanation:



first letter of each term decreased by 6

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Question 65

If '+' means '÷', '-' means '+', '÷' means 'x' and 'x' means '-', then $32 + 4 - 8 \times 4 \div 3 = ?$

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

Answer: B

Explanation:

according to the question

$$32 \div 4 + 8 - 4 \times 3$$

$$8 + 8 - 12$$

$$16 - 12 = 4$$

Question 66

If the perimeter of a triangle is 28 cm and its inradius is 3.5 cm, what is its area?

- A $49cm^2$
- B $35cm^2$
- C $35cm^2$
- D $42cm^2$

Answer: A

Explanation:

$$\text{area of triangle} = \text{inradius} \times \text{semiperimeter}$$

$$\text{perimeter} = 28$$

$$\text{semiperimeter} = \frac{28}{2} = 14$$

$$\text{inradius} = 3.5$$

$$\text{area} = 3.5 \times 14 = 49cm^2$$

Question 67

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

19(413)22

11(431)32

42(???)12

A 154

B 514

C 145

D 541

Answer: D

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Question 68

Arrange the following fractions in descending order.

$\frac{5}{6}, \frac{3}{7}, \frac{8}{9}, \frac{3}{14}$

A $\frac{8}{9}, \frac{5}{6}, \frac{3}{7}, \frac{3}{14}$

B $\frac{5}{6}, \frac{8}{9}, \frac{3}{7}, \frac{3}{14}$

C $\frac{3}{7}, \frac{8}{9}, \frac{5}{6}, \frac{3}{14}$

D $\frac{8}{9}, \frac{3}{14}, \frac{3}{7}, \frac{5}{6}$

Answer: A

Explanation:

$$\frac{5}{6} = 0.83$$

$$\frac{3}{7} = 0.42$$

$$\frac{8}{9} = 0.88$$

$$\frac{3}{14} = 0.19$$

$$\frac{8}{9} > \frac{5}{6} > \frac{3}{7} > \frac{3}{14}$$

Question 69

Which of these creatures do NOT have teeth?

A Dogs

B Pigs

C Horses

D Turtles

Answer: D

Question 70

Find the missing number in the following series. 2, 7, 16, (...), 46, 67, 92

- A 29
- B 38
- C 32
- D 36

Answer: A

Explanation:

$$2 + 5 = 7$$

$$7 + 9 = 16$$

$$16 + 13 = 29$$

$$29 + 17 = 46$$

$$46 + 21 = 67$$

$$67 + 25 = 92$$

2, 7, 16, 29, 46, 67, 92

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Question 71

Find the ODD one out from the given options.

- A 49
- B 24
- C 15
- D 80

Answer: A

Question 72

What is the common name of gases and liquids?

- A Chemicals
- B Resins
- C Gel
- D Fluids

Answer: D

Question 73

Which of the following is the process of splitting up of the heavy nucleus of a radioactive atom into smaller nuclei when bombarded with low energy neutrons?

- A Nuclear fusion
- B Nuclear destruction

- C Nuclear fission
- D Nuclear generation

Answer: C

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Question 74

What is the nature of bleaching powder?

- A Reducing agent
- B Blistering agent
- C Sulphonating agent
- D Oxidising agent

Answer: D

Question 75

If $27^{20} \div 27^{10} = 3^k$, then find the value of K.

- A 30
- B 15
- C 12
- D 27

Answer: A

Explanation:

$$27^{20} \div 27^{10} = 3^k$$

$$\Rightarrow 27^{10} = 3^k$$

$$\Rightarrow 3^{3 \times 10} = 3^k$$

$$\Rightarrow k = 30$$

Question 76

Find the missing number in the following series.

110, 99, 86, (...), 54, 35

- A 67
- B 71
- C 81
- D 75

Answer: B

Explanation:

$$110 - 11 = 99$$

$$99 - 13 = 86$$

86 - 15 = 71

71 - 17 = 54

54 - 19 = 35

110, 99, 86, 71, 54, 35

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Question 77

Simplify $\sqrt{176} + \sqrt{2401}$

A 15

B 25

C 14

D 18

Answer: A

Explanation:

$$\sqrt{2401} = 49$$

$$176 + 49 = 225$$

$$\sqrt{225} = 15$$

Question 78

Which of the following kings was the father of Sanghamitra and Mahendravarman?

A Ashoka

B Kanishka

C Bimbisar

D Krishnadeva Raya

Answer: A

Question 79

If in a certain code, 'bir le nac' means 'green and tasty', 'pic nac hor' means 'tomato is green' and 'coc bir hor' means 'food is tasty', which of the following means 'tomato is tasty' in that code?

A bir le hor

B pic hor nac

C hor bir pic

D pic le coc

Answer: C

Explanation:

'bir le nac' means 'green and tasty',.....(1)

'pic nac hor' means 'tomato is green'.....(2)

'coc bir hor' means 'food is tasty'.....(3)

from (1) and (2) nac = green
from (1) and (3) bir = tasty
le = and
from (2) and (3) hor = is
pic = tomato
hor pir bic means 'tomato is tasty'

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Question 80

If in a certain code, 'bir le nac' means 'green and tasty', 'pic nac hor' means 'tomato is green' and 'coc bir hor' means 'food is tasty', which of the following means 'tomato is tasty' in that code?

- A bir le hor
- B pic hor nac
- C hor bir pic
- D pic le coc

Answer: C

Explanation:

bir le nac' means 'green and tasty',.....(1)
'pic nac hor' means 'tomato is green'.....(2)
'coc bir hor' means 'food is tasty'.....(3)

from (1) and (2) nac = green
from (1) and (3) bir = tasty
le = and
from (2) and (3) hor = is
pic = tomato
hor pir bic means 'tomato is tasty'

Question 81

Breaking of silver bromide into silver and bromine is an example of _____.

- A Decomposition reaction
- B Combination reaction
- C Neutralisation reaction
- D Redox reaction

Answer: A

Question 82

Which number will best complete the relationship given below?
6 : 36 :: 8 : ?

- A 46

B 49

C 47

D 48

Answer: D

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Question 83

0.04×0.0123 is equivalent to _____.

A 492×10^{-5}

B 4.92×10^{-6}

C 492×10^{-4}

D 4.92×10^{-4}

Answer: D

Explanation:

$$0.04 \times 0.0123 = 0.000492$$

$$0.000492 = 4.92 \times 10^{-4}$$

Question 84

Who is India's first woman grandmaster in chess?

A Bhagyashree Thipsay

B R. Khadilkar

C S. Vijayalakshmi

D Saheli Dhar

Answer: C

Question 85

When the speed of any object exceeds the speed of sound, it is said to be travelling at which speed?

A Infrasonic

B Hyposonic

C Supersonic

D Subsonic

Answer: C

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Question 86

Malachite is an ore of?

- A Magnesium
- B Copper
- C Mercury
- D Manganese

Answer: B

Explanation:

The distinctive bright-green hydrous CARBONATE MINERAL malachite is a common but minor ore of **copper**. It is usually found in **copper** deposits associated with LIMESTONE, occurring with AZURITE as the weathering product of other **copper ore minerals**.

Question 87

Which of the following is a saturated hydrocarbon?

- A Acetylene
- B Propylene
- C Methane
- D Butadiene

Answer: C

Question 88

What is the resultant resistance if 2 Ω resistors are connected in parallel?

- A 0.5 Ω
- B 3 Ω
- C 2 Ω
- D 1 Ω

Answer: D

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Question 89

To obtain an enlarged real inverted image beyond 2F after refraction by convex lens, where should the object be placed?

- A Between F and 2F
- B Between focus F and optic centre O
- C At infinity
- D At 2F

Answer: A

Question 90

With which type of acid is the atmosphere of Venus made up of?

- A Sulphuric acid
- B Nitric acid
- C Hydrochloric acid
- D Oxalic acid

Answer: A

Question 91

P alone can do a job in 18 days. P and Q working together can do it in 15 days. They started to work together. After 10 days Q left, and P alone has to complete the job. In how many more days can P complete the job?

- A 5 days
- B 7 days
- C 6 days
- D 8 days

Answer: C

Explanation:

$$\text{workdone} = \text{efficiency} \times \text{time}$$

P alone can do a job in 18 days

P and Q working together can do it in 15 days

work done = LCM(18, 15)

$$= 90$$

$$\text{efficiency of P} = \frac{90}{18} = 5$$

$$\text{efficiency of P + Q} = \frac{90}{15} = 6$$

$$\text{therefore efficiency of Q} = 6 - 5 = 1$$

P and Q work together for 10 days

$$\text{total work done for 10 days} = 10 \times 6 = 60$$

$$\text{remaining work} = 90 - 60 = 30$$

let x be the days required to complete the remaining job by P

$$30 = x \times 5$$

$$\text{solving } x = 6 \text{ days}$$

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Question 92

If Rs.64 amounts to Rs.83.20 in 2 years, what will Rs.86 amount to in 4 years at the same rate per cent Simple Interest per annum?

- A Rs.124.70
- B Rs.137.60
- C Rs.114.8
- D Rs.127.40

Answer: B

Explanation:

let the rate of interest = R%

according to the question

interest in 2 years = $83.20 - 64 = 19.20$

$$SI = \frac{PNR}{100}$$

$$R = \frac{SI \times 100}{PT}$$

$$= \frac{19.20 \times 100}{64 \times 2} = 15\%$$

amount of Rs 86 will be in 4 years by 15% rate of interest

$$SI = \frac{86 \times 15 \times 4}{100} = 51.6Rs$$

amount = principal + SI

$$86 + 51.6 = 137.6 Rs$$

Question 93

The LCM of two numbers which are in the ratio 2 : 3 is 48. What is their sum?

- A 32
- B 28
- C 64
- D 40

Answer: D

Explanation:

let the numbers be 2x and 3x

$$\text{LCM}(2x, 3x) = 6x$$

given LCM = 48

$$6x = 48$$

$$x = \frac{48}{6}$$

$$2x = 16$$

$$3x = 24$$

sum of the numbers = $16 + 24 = 40$

Question 94

The main function of vitamin K is in?

- A Calcium absorption
- B Skin health
- C Blood clotting
- D Immune system

Answer: C

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Question 95

Who among the following has become the first ever captain to win 100 matches in IPL history?

- A Virat Kohli
- B Rohit Sharma
- C M.S. Dhoni
- D David Warner

Answer: C

Question 96

Find the group of wrong alphabets in the following series.

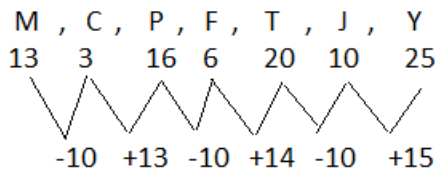
M, C, P, F, T, G, Y

- A Y
- B C
- C P
- D G

Answer: D

Explanation:

correct series



G is the wrong alphabet

Question 97

Esters have _____ smell.

- A Pungent
- B Rotten
- C Fruity
- D Chemical

Answer: C

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Question 98

A person borrows Rs.5000 for 2 years at 4% per annum Simple Interest. He immediately lends it to another person at 6.25% per annum for 2 years. Find his gain in the transaction per year.

- A Rs.167.50
- B Rs.112.50
- C Rs.125
- D Rs.150

Answer: B

Explanation:

$$SI = \frac{PNR}{100}$$

person borrows Rs.5000 for 2 years at 4% per annum Simple Interest.

$$SI1 = \frac{5000 \times 2 \times 4}{100} = 400$$

He lends it to another person at 6.25% per annum for 2 years.

$$SI2 = \frac{5000 \times 2 \times 6.25}{4 \times 100} = 625$$

gain in 2 years = SI2 - SI1

$$= 625 - 400$$

$$= 225$$

$$\text{gain in 1 year} = \frac{225}{2} = 112.50$$

Question 99

Which of the following Ministries won the platinum of Web Ratna Award in Digital India Awards 2018?

- A Ministry of Micro, Small and Medium Enterprises
- B Ministry of Corporate Affairs
- C Ministry of Youth Affairs and Sports
- D Ministry of Communications and Information

Answer: A

Question 100

Which of the following is NOT a multi-seeded fruit?

- A Litchi
- B Apple
- C Pomegranate
- D Papaya

Answer: A

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