



RRB JE 26th May 2019 Shift-1

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Instructions

For the following questions answer them individually

Question 1

Which vitamin is used for the treatment of common cold?

- A Vitamin 'B'
- B Vitamin 'D'
- C Vitamin 'A'
- D Vitamin 'C'

Answer: D

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Question 2

Complete the series.

755, 151, 75.5, 15.1, (...)

- A 8.43
- B 9.67
- C 7.55
- D 6.12

Answer: C

Explanation:

755, 151, 75.5, 15.1, (...)

$$755 \div 5 = 151$$

$$151 \div 2 = 75.5$$

$$75.5 \div 5 = 15.1$$

$$15.1 \div 2 = 7.55$$

Question 3

If the time period of a sound wave is 0.02 s, then what is its frequency?

- A 100 Hz
- B 500 Hz
- C 25 Hz
- D 50 Hz

Answer: D

Question 4

Find the missing number in the following series.

864, 432, 440, 220, (...), 114

- A 239

B 232

C 237

D 228

Answer: D

Explanation:

864, 432, 440, 220, (...), 114

$$864 \div 432 = 2$$

$$432 + 8 = 440$$

$$440 \div 220 = 2$$

$$220 + 8 = 228$$

$$228 \div 114 = 2$$

so missing term will be 228

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Question 5

In a party, one-fifth of the guests wanted cool drinks only. Out of the remaining, half of them liked coffee and two-thirds like tea. If 12 of the guests opted for both coffee and tea, how many guests had attended the party?

A 72

B 100

C 88

D 90

Answer: D

Question 6

Why should an electrician wear rubber gloves while repairing an electrical switch?

A To avoid slipping of materials

B To avoid electric shock

C To clean the switch

D To handle the devices easily

Answer: B

Question 7

Burning of fossil fuels causes increased amounts of carbon dioxide in atmosphere and what is the name of the harmful effect caused due to this?

A Greenhouse effect

B Chemical effect

C Carbon effect

D Pollution effect

Answer: A

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Question 8

Ratio of speeds of two vehicles is 7 : 8. If the second vehicle covers 400 km in 5 hours, what is the speed of the first vehicle?

- A 70 km/h
- B 75 km/h
- C 85 km/h
- D 65 km/h

Answer: A

Explanation:

2nd vehicle covers 400 km in 5 hours

$$\therefore \text{speed of 2nd vehicle } V_2 = \frac{\text{distance}}{\text{time}} = 80 \text{ km/h}$$

let the speed of 1st vehicle is V_1

ATQ

$$\frac{\text{speed of 1st vehicle}}{\text{speed of 2nd vehicle}} = \frac{7}{8}$$

$$\frac{V_1}{80} = \frac{7}{8}$$

$$V_1 = 80 \times \frac{7}{8} = 70 \text{ Km/h}$$

speed of 1st vehicle is 70 km/h

Question 9

If in a certain language 'CASUAL' is coded as 'GEWYEP', how is 'PEOPLE' coded in that language?

- A TISTPI
- B THSTOI
- C SHRSOH
- D SIRTOL

Answer: A

Explanation:

'CASUAL' is coded as 'GEWYEP'

after every 3 letters in alphabetical series we get our coded letters , like

C DEF G

A BCD E

S TUV W

U VWX Y

A BCD E

L MNO P

similarly for 'PEOPLE'

P QRS T

E FGH I

O PQR S

P QRS T

L MNO P

E FGH I

so the coded word = TISTPI

Question 10

How many times a half moon is visible in a month?

- A Four times
- B Two times
- C Three times
- D one time

Answer: B

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Question 11

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

Statements:

- 1) Some fools are intelligent.
- 2) Some children are intelligent.

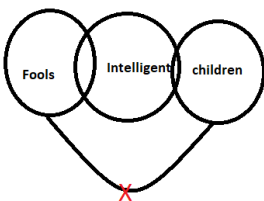
Conclusions:

- I. Some fools are children.
- II. All children are intelligent.

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

Answer: A

Explanation:



I. Some fools are children.

there is no connection between fools and children so we cant say anything about them.

II. All children are intelligent.

only some children is intelligent as shown in figure, not all children

so, **Neither conclusion I nor II follows**

Question 12

If a person weighs 66 kg on the Earth, how much is his weight on the moon?

- A 55 kg
- B 77 kg
- C 11 kg
- D 132 kg

Answer: C

Explanation:

The force/weight of gravity on her **moon** is approximately 1/6th of **earth**.

here given

weight on Earth is 66 kg

weight on moon = $\frac{1}{6} \times 66$

= 11kg

Question 13

If $y = 3 + 2\sqrt{2}$, then find the value of \sqrt{y}

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

Answer: A

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Question 14

The Sabarmati River originates from which Indian State?

- A Uttar Pradesh
- B Bengal
- C Gujarat
- D Rajasthan

Answer: D

Question 15

What is the distance of the principal focus F from the pole P of the spherical mirror called?

- A Object distance (u)
- B Image distance (v)
- C Virtual distance
- D Focal length (f)

Answer: D

Question 16

The length of a rectangle is halved, and its breadth is tripled. What is the percentage change in its area?

- A 75% decrease
- B 25% increase
- C 50% decrease
- D 50% increase

Answer: D

Explanation:

let original length = x and original breadth = y.

Original area of rectangle = xy.

new length = $\frac{x}{2}$ and new breadth = 3y

New area = $\frac{3xy}{2}$

so, Increase in area = New area - original area = $\frac{3xy}{2} - xy = \frac{xy}{2}$

sp, Increase %

$$\begin{aligned} &= \frac{\text{increase in area}}{\text{original area}} \times 100 \\ &= \frac{\frac{xy}{2}}{xy} \times 100 \\ &= 50\% \end{aligned}$$

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Question 17

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

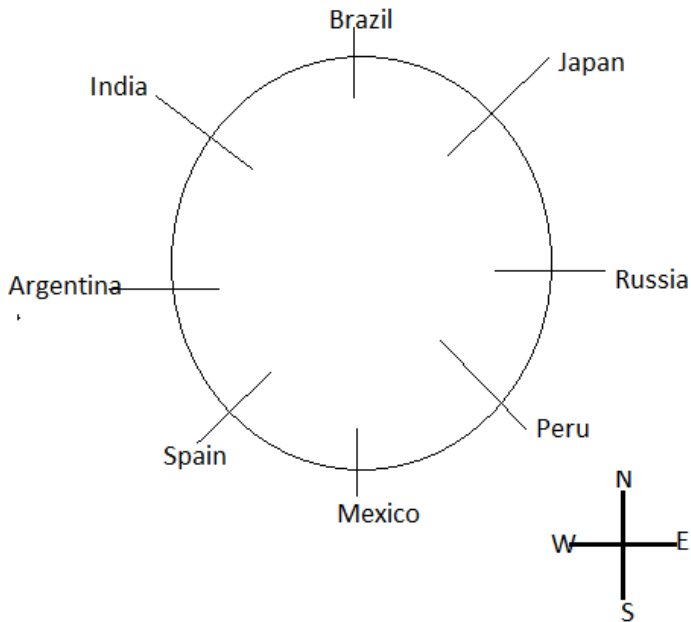
Eight captains of different football teams—Russia, Brazil, India, Argentina, Mexico, Peru, Spain and Japan are sitting around a circular table and are facing the centre, but not necessarily in the same order. Indian captain sits third to the left of the Mexico captain. Only two people sit between the Russian captain and Spain captain. Neither the Russian captain nor Spain captain is an immediate neighbour of the Indian captain. The captain of Japan sits second to the right of the Peru captain. Peru captain is not an immediate neighbour of the Indian captain. The Russian captain sits third to the left of the Indian captain. Captains of Argentina and Brazil are not immediate neighbours. Argentina captain sits third to the left of the Peru captain.

Which of the following captains sits to the immediate right of the captain of Mexico?

- A Argentina
- B Peru
- C Russia
- D Spain

Answer: B

Explanation:



Peru captain sits to the immediate right of the captain of Mexico as shown in figure.

Question 18

Which of the following countries was the host of Men's Hockey World Cup 2018?

- A Pakistan
- B Malaysia
- C India
- D Germany

Answer: C

Question 19

Find the ODD one out from the given options.

- A 60
- B 25
- C 15
- D 30

Answer: B

Explanation:

60, 15, 30 these are the multiple of 3 and 15

whereas 25 is not the multiple of 3 and 15

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Question 20

In which of the following cities is the longest beach in India located?

- A Mangalore
- B Cochin
- C Chennai
- D Mumbai

Answer: C

Question 21

Complete the series.

SHG, RIF, QJE, PKD, (...)

- A NMC
- B OLC
- C NLB
- D OLE

Answer: B

Explanation:

SHG, RIF, QJE, PKD, (...)

A	B	C	D	E	F	G	H
1	2	3	4	5	6	7	8
I	J	K	L	M	N	O	P
9	10	11	12	13	14	15	16
Q	R	S	T	U	V	W	X
17	18	19	20	21	22	23	24
Y	Z						
25	26						

first letter

first letter decreasing by 1

S then R then Q then P then O

Second letter

second letter is increasing by 1

H then I then J then K then L

Third Letter

Third letter decreasing by 1

G then F then E then D then C

so new word is OLC

Question 22

Complete the series.

8888, 666, 44, (...)

- A 20
- B 2
- C 22
- D 0

Answer: B

Explanation:

8888, 666, 44, (...)

here the series digit is decreasing

4 digit ,3 digit , 2 digit , 1digit

number is also decreasing by 2

$$8 - 6 = 4$$

$$6 - 4 = 2$$

so new no. is 2

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Question 23

The common name of sodium hydrogen carbonate is-

- A Epsom salt
- B Milk of magnesia
- C Common salt
- D Baking soda

Answer: D

Question 24

Simplify: $\frac{1}{4} + \frac{3}{8} - \frac{1}{2} + \frac{3}{4} - \frac{1}{3}$

- A $-\frac{13}{24}$
- B $\frac{5}{24}$
- C $\frac{17}{24}$
- D $\frac{13}{24}$

Answer: D

Explanation:

take the lcm of 4,8,2,3 by taking factorization

$$2=2$$

$$3=3$$

$$4=2 \times 2$$

$$8=2 \times 2 \times 2$$

by taking common

$$\text{lcm} = 2 \times 2 \times 2 \times 3 = 24$$

$$\frac{1}{4} + \frac{3}{8} - \frac{1}{2} + \frac{3}{4} - \frac{1}{3}$$

$$\frac{6+9-12+18-8}{24}$$

$$\frac{13}{24}$$

Question 25

The sum of ages of 5 children born at intervals of four years is 80. What is the age of the eldest child?

- A 16
- B 18
- C 28
- D 24

Answer: D

Explanation:

let the age of 4 childrens are $x, (x + 4), (x + 8), (x + 12), (x + 16)$

sum of the age of all the children = 80 years

$$x + (x + 4) + (x + 8) + (x + 12) + (x + 16) = 80$$

$$5x + 40 = 80$$

$$5x = 40$$

$$x = 8$$

$$\text{eldest child age} = (x + 16) = 8 + 16 = 24 \text{ years}$$

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Question 26

Which Greek letter denotes wave length?

- A Mu (μ)
- B Omega (ω)
- C Lambda (λ)
- D Epsilon (ϵ)

Answer: C

Question 27

If $\tan(A + B) = 0$, then-

- A $\frac{2 \tan A + \tan B}{1 - \tan A \tan B} = 1$
- B $\tan A + \tan B = 0$
- C $\frac{2 \tan A + \tan B}{1 + \tan A \tan B} = 0$
- D $\tan A = \tan B$

Answer: B

Explanation:

this is a formula of trigonometry

$$\tan(A + B) = 0$$

$$\frac{\tan A + \tan B}{1 - \tan A \times \tan B} = 0$$

$$\tan A + \tan B = 0$$

Question 28

India Post Payments Bank (IPPB) has tied up with which Insurance company to provide insurance to all?

- A Bajaj Allianz Life Insurance
- B New India Assurance
- C ICICI Prudential Life Insurance
- D Birla Sun Life Insurance

Answer: A

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Question 29

What is the expansion of NASA ?

- A Navigational Aeronautics and Space Administration
- B National Agency of Space Administration
- C National Aeronautics and Space Agency
- D National Aeronautics and Space Administration

Answer: D

Question 30

Which of these pairs of numbers CANNOT be the last two digits a, b in 21022ab, if it is divisible by both 8 and 5?

- A a = 4, b = 5
- B a = 8, b = 0
- C a = 2, b = 0
- D a = 0, b = 0

Answer: E

Question 31

Blood is an example of _____ type of tissue.

- A Epithelial
- B Nervous
- C Muscle
- D Connective

Answer: D

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Question 32

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

Statement:

Vegetable prices are soaring in the market.

Conclusions:

- I. Vegetables are becoming a rare commodity.
- II. People cannot eat vegetables.

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

Answer: C

Explanation:

Vegetable prices are soaring in the market

-This statement means that Vegetable price are increasing

- I. Vegetables are becoming a rare commodity.
- II. People cannot eat vegetables.

so,

Neither conclusion I nor II follows

Question 33

Find the LCM of $\frac{2}{3}$ and $\frac{6}{7}$.

- A $\frac{6}{21}$
- B 6
- C $\frac{2}{21}$
- D $\frac{12}{21}$

Answer: B

Explanation:

$\frac{2}{3}$ and $\frac{6}{7}$

take the lcm of 2,6 by taking factorization

$$2=2$$

$$6=2 \times 3$$

by taking common

$$\text{lcm}=2 \times 3 =6$$

denominator is calculated by hcf method

$$3 = 3$$

$$7 = 7$$

select the highest common factor = 1

$$\text{lcm} = \frac{\text{lcm}}{\text{hcf}}$$

$$\frac{6}{1}$$

Question 34

The longest bone in the body is the-

- A Humerus
- B Scapula
- C Femur
- D Spine

Answer: C

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Question 35

On which dates will Sundays come in February 2020?

- A 5, 12, 19, 26 of February
- B 2, 9, 16, 23 of February
- C 8, 15, 22, 29 of February
- D 3, 10, 17, 24 of February

Answer: B

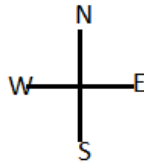
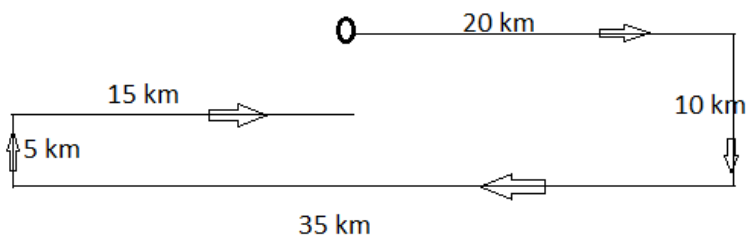
Question 36

Rakesh is standing at a point. He walks 20 m towards east and further 10 m towards south. He then walks 35 m towards west and further 5 m towards north. Again he walks 15 m towards east. What is the shortest distance in meters between his starting point and the point where he is now?

- A 10 m
- B Cannot be determined
- C 1 m
- D 5 m

Answer: D

Explanation:



so, $10 - 5 = 5$ km

Question 37

State two factors on which the electrical energy consumed by an electric appliance depends.

- A The power rating of the appliance and the time for which it is used
- B The energy and the time for which it is used
- C The voltage and the current
- D The power rating and the temperature

Answer: A

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Question 38

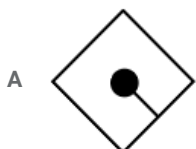
Butanone is a four-carbon compound with the functional group-

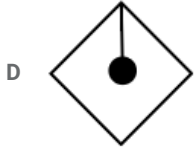
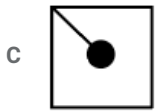
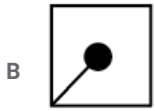
- A Aldehyde
- B Ketone
- C Alcohol
- D Carboxylic acid

Answer: B

Question 39

Find the ODD one out from the given options.





Answer: A

Explanation:

In all the figure the string attached with sphere is passed through the corner of the square but in fig(a) the string is not passed through the corner

Question 40

An aeroplane is moving at a constant altitude 'h'. At 10:00 AM, it is seen at an elevation of 30° . 1 minute later, it is observed at an elevation of 60° . If the speed of the plane is 960 km/h, then find 'h'.

- A 15 km
- B 20 km
- C 12.46 km
- D 13.86 km

Answer: D

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Question 41

What does insulin regulate?

- A Blood glucose level
- B Heart beat
- C Physical growth
- D Reproduction

Answer: A

Question 42

Kiran Bedi is the present Lieutenant Governor of-

- A Puducherry
- B Kerala
- C Goa
- D Karnataka

Answer: A

Question 43

Find the ODD one out from the given options.

- A L
- B F
- C Q
- D R

Answer: C

Explanation:

L = 12

F = 6

R = 18

Q = 17

L, F, R are the multiple of 6 except Q

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Question 44

Which of the following games is associated with Thomas Cup?

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

Answer: A

Question 45

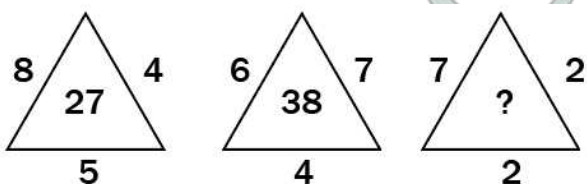
The smell of the perfume reaches our nose quickly due to the process of-

- A Evaporation
- B Condensation
- C Diffusion
- D Fusion

Answer: C

Question 46

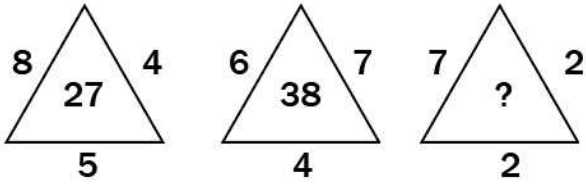
Choose the alternative that best replaces the question mark(?) in the given figure.



- A 15
- B 12
- C 19
- D 24

Answer: B

Explanation:



here multiplication of two sides and then sub one side , we get no. inscribed in the Triangle

$$= 8 \times 4 = 32 - 5 = 27$$

$$= 6 \times 7 = 42 - 4 = 38$$

$$= 7 \times 2 = 14 - 2 = 12$$

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Question 47

P works twice as fast as Q. Q alone can complete some work in 12 days. Working together, how long will P and Q take to complete the work?

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

Answer: D

Explanation:

P works twice as fast as Q

let q's effi = x

p's eff = 2x

Q = 12 days

as we know work = $effi \times days$ (we have the effi and days of Q)

$$= x \times 12$$

$$= 12x$$

so P time taken = $work \div effis$

$$= 6 \text{ days}$$

total effi = $x + 2x = 3x$

total time taken = $12x \div 3x$

$$= 4 \text{ days}$$

Question 48

Which of the following is NOT the effect of modern agriculture?

- A Eutrophication

- B Ozone depletion
- C Nitrate pollution
- D Biomagnification

Answer: B

Question 49

Which of the following non-metals is a good conductor of electricity?

- A Bromine
- B Phosphorus
- C Graphite
- D Hydrogen

Answer: C

RRB Group-D Previous Papers

Question 50

Which of these can be a cause for soil erosion?

- A Cutting down trees
- B Over-grazing of pastures
- C All of the options
- D Ploughing of steeply sloping land

Answer: C

Question 51

Why does a mechanic apply grease between the moving parts of a bicycle or a motor?

- A To clean the parts
- B To remove rust
- C To make the parts look shiny
- D As a lubricant to reduce friction

Answer: D

Question 52

An article is marked 20% above the cost price and sold at a discount of 20%. What is the net result of this sale?

- A No profit or loss
- B 10% gain
- C 4% loss
- D 10% loss

Answer: C

Explanation:

$$\text{formula} = \frac{d}{100} d$$

where, d = discount provided (formula is valid only for the same d)

hence,

$$= \frac{20}{100} 20 = 4\% \text{ loss}$$

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Question 53

Valence shell is the _____ shell of every element.

- A Middle
- B Penultimate
- C First
- D Outermost

Answer: D

Question 54

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

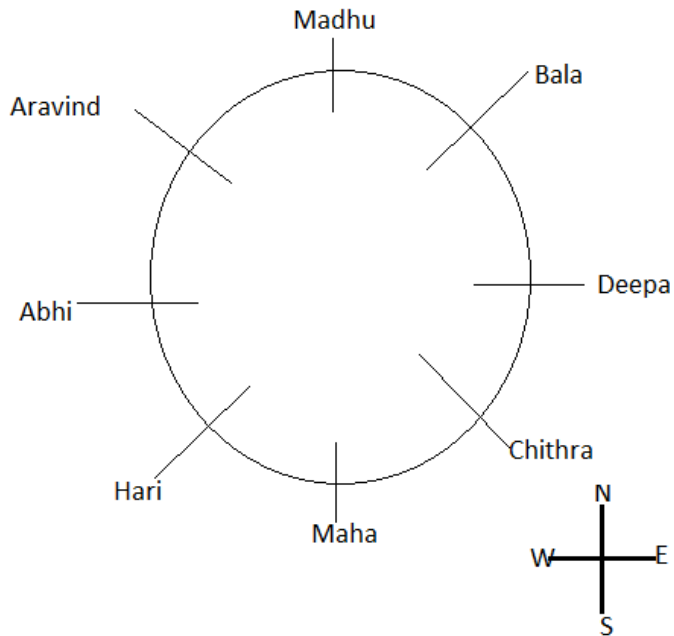
Aravind, Bala, Chithra, Deepa, Hari, Maha, Madhu and Abi are sitting around a circle facing the center. Bala is third to the right of Maha and third to the left of Abi. Chithra is fourth to the left of Aravind. Aravind is not an immediate neighbour of Maha and Bala. Hari is not an immediate neighbour of Bala. Madhu is second to the right of Deepa.

Who is to the immediate left of Bala?

- A Chithra
- B Deepa
- C Maha
- D Madhu

Answer: B

Explanation:



All are facing centre

so, Deepa is immediate left of Bala

Question 55

$MnO_2 + 4HCl \rightarrow MnCl_2 + 2H_2O + Cl_2$ is an example of-

- A Precipitation reaction
- B Combination reaction
- C Combustion reaction
- D Redox reaction

Answer: D

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Question 56

Which creature grows again after it is cut into half ?

- A Frog
- B Earthworm
- C Lizard
- D Cockroach

Answer: B

Question 57

In whose court was Chanakya a minister?

- A Bindusara
- B Ashoka

- C Dasharatha Maurya
- D Chandragupta Maurya

Answer: D

Question 58

Find the LCM of 1.05 and 2.1.

- A 0.6
- B 1.25
- C 2.1
- D 4

Answer: C

Explanation:

1.05 and 2.1

$$\text{no.} = \frac{105}{100} \text{ and } \frac{21}{10}$$

$$105 = 5 \times 3 \times 7$$

$$21 = 3 \times 7$$

Select the common terms

$$\text{lcm} = 3 \times 7 \times 5 = 105$$

denominator is calculated by hcf method

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

$$10 = 2 \times 5$$

select the highest common factor = 10

$$\text{lcm} = \frac{\text{lcm}}{\text{hcf}}$$

$$\frac{105}{10}$$

$$= 21$$

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Question 59

Rs.12000 invested at 10% Simple Interest and another investment at 20% Simple Interest together give a 14% income on the total investment in one year. Find the total investment.

- A Rs.24000
- B Rs.8000
- C Rs.20000
- D Rs.18000

Answer: C

Explanation:

given, 10% of 12000 is 1200

let another money is x

$$20\% \text{ of } x = x \times \frac{20}{100}$$

ATQ

$$1200+x \times \frac{20}{100} = (12000 + x) \times \frac{14}{100}$$

$$=120000 - (12000 \times 14) = x \times 14 - x \times 20$$

$$= 6x = 48000$$

$$= x=8000$$

Total investment = Rs 12000 + Rs8000 = Rs.20000

Question 60

Who among the following took charge as the MD, CEO of Yes Bank in March 2019?

- A Pallav Mohapatra
- B Aditya Puri
- C Amitabh Chaudhry
- D Ravneet Gill

Answer: D

Question 61

If 'ELCSUM' is coded as 'MUSCLE', how will 'LATIPAC' be coded?

- A CAPITAL
- B CONDUCE
- C CONFESS
- D CAPRICE

Answer: A

Explanation:

ELCSUM' is coded as 'MUSCLE'

here letters are arranged in reverse order like first letter comes last

similarly

second letter comes in second letter and so on

'LATIPAC' be coded as in reverse order = CAPITAL

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Question 62

Who among the following inaugurated the Diffo Bridge in 2019?

- A Nirmala Sitharaman
- B Rajnath Singh
- C Sushma Swaraj
- D Narendra Modi

Answer: A

Question 63

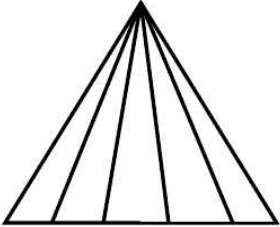
Who among the following scored the first-ever triple century in a test match?

- A Andy Sandham
- B Virender Sehwag
- C Brian Lara
- D Chris Gayle

Answer: A

Question 64

How many triangles are there in the given figure?



- A 15
- B 9
- C 24
- D 19

Answer: A

Explanation:

Total 15 triangle

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Question 65

What is the area included between a circle and an inscribed square of side 'a' units?

- A $a^2(2\pi - 1)$ sq. units
- B $\left(\frac{a^2}{2}\right)(\pi - 2)$ sq. units
- C $a^2(2 - \pi)$ sq. units
- D $2a^2(\pi - 2)$ sq. units

Answer: B

Question 66

'Onam' is one of the most important festivals of-

- A Gujarat
- B Maharashtra
- C Kerala
- D Karnataka

Answer: C

Question 67

The unit of Joule per Coulomb is-

- A Ampere (A)
- B Joule (J)
- C Volt (V)
- D Coulomb (C)

Answer: C

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Question 68

Simplify: $1 + \frac{1}{3} + \frac{1}{6} + \frac{1}{8} + \frac{1}{12} + \frac{1}{24}$

- A 2
- B 1.75
- C 1.25
- D 1.5

Answer: B

Explanation:

$$1 + \frac{1}{3} + \frac{1}{6} + \frac{1}{8} + \frac{1}{12} + \frac{1}{24}$$

take the lcm of 3,6,8,12,24 by taking factorization

$$3=3$$

$$6=2 \times 3$$

$$12=2 \times 2 \times 3$$

$$8=2 \times 2 \times 2$$

$$24=2 \times 2 \times 2 \times 3$$

by taking common

$$\text{lcm} = 2 \times 2 \times 2 \times 3 = 24$$

$$\frac{24+8+4+3+2+1}{24} = 1.7$$

Question 69

Which number will best complete the relationship given below?

4 : 128 :: 6 : ?

- A 192
- B 193
- C 194
- D 195

Answer: A

Explanation:

4 : 128 :: 6 :

we have to find the relation between 4 and 128

$$4 \div 128 = 32 \text{ times}$$

so apply the above relation with 6 also

$$6 \times 32 = 192$$

Question 70

Plaster of Paris hardens by-

- A Changing into $CaCO_3$
- B Giving out water
- C Combining with water
- D Giving of carbon dioxide

Answer: C

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Question 71

What is acupuncture?

- A Modern method of digging deep wells
- B Ancient Chinese system of medicine
- C Method of curing cancer
- D Ancient Greek system of medicine

Answer: B

Question 72

A train P starts from Meerut at 4 p.m. and reaches Ghaziabad at 5 p.m., while another train Q starts from Ghaziabad at 4 p.m. and reaches Meerut at 5:30 p.m. At what time will the two trains cross each other?

- A 4:48 p.m.
- B 4:42 p.m.
- C 4:50 p.m.
- D 4:36 p.m.

Answer: D

Explanation:

$$\text{speed of first train} = \frac{D}{60}$$

$$\text{speed of second train} = \frac{D}{90}$$

suppose two train will meet after t minutes.

$$\text{distance travelled by first train in } t \text{ minutes} = t \times \frac{D}{60}$$

$$\text{distance travelled by second train in } t \text{ minutes} = t \times \frac{D}{90}$$

distance travelled by both trains = distance between stations

$$t \times \frac{D}{60} + t \times \frac{D}{90} = D$$

D will cancel from both sides

$$60 + \frac{D}{90} = 1$$

$$9t + 6t = 540$$

$$15t = 540$$

$$t = \frac{540}{15}$$

$$t = 36 \text{ minutes}$$

answer is 4:36 pm because first train start at 4 pm.

Question 73

Find the group of wrong alphabets in the following series.

LX, IL, SB, OD, NA

A IL

B NA

C LX

D SB

Answer: D

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Question 74

In a certain code, 'LANDMINE' is written as 'PYRBQGR'. How will 'HOMEMADE' be written in that code?

A LMPCPZID

B LMOCOZID

C LMPCOYHC

D LMQCQYHC

Answer: D

Explanation:

'LANDMINE' is written as 'PYRBQGR'. How will 'HOMEMADE' be written in that code

Even position letters are coded as one letter before the respective letter

A.....Y

D.....B

I.....G

E.....C

odd position letters are coded as three letter after the respective letter

L.....P

N.....R

M.....Q

N.....R

similarly, for HOMEMADE

Even position letters are coded as one letter before the respective letter

O.....M

E.....C

A.....Y

E.....C

odd position letters are coded as three letter after the respective letter

H.....L

M.....Q

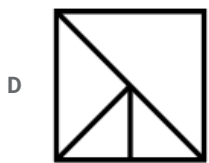
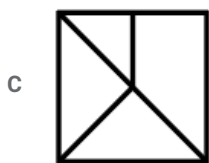
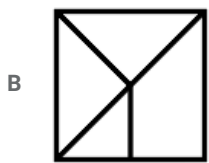
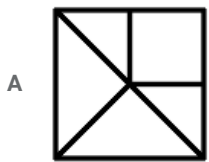
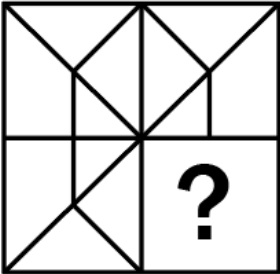
M.....Q

D.....H

so LMQCQYHC

Question 75

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



Answer: C

Explanation:



Question 76

Which of these is India's first indigenously built submarine?

A Vikrant

B Shalki

C Vikram

D Vijay

Answer: B

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Question 77

'Cataract' is a disease that affects the _____.

A Ears

B Heart

C Eyes

D Legs

Answer: C

Question 78

What causes hydrophobia ?

A Bacteria

B Varroa virus

C Acute virus

D Rabies virus

Answer: D

Question 79

If a, b, c and d are 4 whole numbers such that $a + b + c = d$ where a, b, d are all odd numbers, then find c.

A Can either be odd or even

B Even

C Also odd

D 0

Answer: C

Explanation:

let a, b, c be any odd numbers

let a = 3

b = 7

c = 13

$a + b + c = d$

$3 + 7 + 13 = 23$

it means d is also odd

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Question 80

Cutaneous respiration takes place in -

- A Fish
- B Birds
- C Man
- D Earthworm



Answer: D

Question 81

Four vessels of equal size are filled with mixtures of milk and water. The strength of milk in the four vessels is 80%, 75%, 60% and 50% respectively. If all four mixtures are mixed, what is the ratio of water to milk in the resultant mixture?

- A 29 : 51
- B 13 : 27
- C 3 : 5
- D 27 : 53

Answer: D

Explanation:

let the vessels of A, B, C and D contains equal vol of 10 lit

The strength of milk in the four vessels is 80%, 75%, 60% and 50% respectively.

So volume of pure Milk in A= $10 \times 0.8 = 8.0$ Litres.

Volume of pure milk in B= 7.5 Litres.

Volume of pure Milk in C= 6.0Litres.

volume of pure Milk in D= 5.0 Litres

So total volume of pure Milk in all the 4- vessels= $(8.0+7.5+6.0+5.0) = 26.5$ Litres

percentage of pure milk on all the 4 vessel

$$= \frac{26.5}{40} \times 100$$

$$= 66.25\%$$

so water

$$100 - 66.25\% = 33.75\%$$

$$\text{ratio} = 66.25 : 33.75$$

$$= 2.65 : 1.35$$

$$= 53 : 27$$

Question 82

Find the value of $\cos 120^\circ \cos 240^\circ \cos 180^\circ \cos 60^\circ$.

A $\frac{1}{2}$

B $\frac{1}{16}$

C $-\frac{1}{8}$

D $\frac{1}{4}$

Answer: C

Explanation:



$$\cos 120^\circ \cos 240^\circ \cos 180^\circ \cos 60^\circ$$

$$\cos 120^\circ = \frac{-1}{2}$$

$$\cos 240^\circ = \frac{-1}{2}$$

$$\cos 180^\circ = -1$$

$$\cos 60^\circ = \frac{1}{2}$$

put the value in equation

$$\cos 120^\circ \cos 240^\circ \cos 180^\circ \cos 60^\circ$$

we get

$$\frac{-1}{8}$$

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Question 83

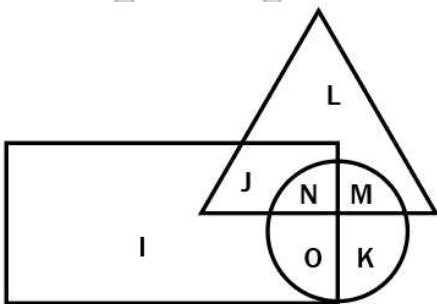
If $x = 2^8$ and $x^x = 2^y$, then find the value of 'y'.

- A 2^4
- B 2^{11}
- C 1
- D 2^{64}

Answer: B

Question 84

In the given figure, the circle represents boys, triangle represents students, and rectangle represents teenagers. What does M represent?



- A Students who are boys but not teenagers
- B Students who are teenagers only
- C Students who are not boys
- D Students who are both boys and teenagers

Answer: A

Explanation:

The circle represents boys = K

The triangle represents students = L

The rectangle represents teenagers = I

J = combination of students and teenagers

N = combination of boys, students and teenagers

O = combination of boys and student

M = combination of boys and student not teenagers

Question 85

Two students appeared for an examination. One of them got 9 marks more than the other. His marks was also equal to 56% of the sum of their marks. What are their marks?

- A 43, 34
- B 42, 33
- C 45, 54
- D 39, 30

Answer: B

Explanation:

let their marks be $(x+9)$ and x .

$$\begin{aligned} \text{ATQ, } x+9 &= \frac{56}{100}(x+9+x) \\ &= 25 \times (x+9) \end{aligned}$$

$$\begin{aligned} &= 14 \times (2x+9) \\ &= 3x = 99 \\ &= x = 33. \end{aligned}$$

So, their marks are $(x+9)$ and x which is 42 and 33

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Question 86

Who among the following discovered the presence of neutrons in the nucleus of an atom?

- A J. Chadwick
- B E. Goldstein
- C J.J. Thomson
- D E. Rutherford

Answer: A

Question 87

Find the total surface area of a hollow hemispherical bowl of diameter 14 cm and negligible thickness.

- A 616 cm^2
- B 628 cm^2
- C 526 cm^2
- D 576 cm^2

Answer: A

Explanation:

$$\text{Inner radius} = r = \frac{D}{2} = 7 \text{ cm}$$

$$\text{Outer radius} = R = 7+0 = 7 \text{ cm thickness} = 0 \text{ cm}$$

$$\text{Inner curved surface area} = 2 \pi r^2$$

$$\text{Outer curved surface area} = 2 \pi R^2$$

On the base of hemispherical bowl, there is a flat ring area too.

Area of flat ring : $\pi \times R^2 - \pi \times r^2$

Total surface area: $2 \times \pi \times r^2 + 2\pi \times R^2 + \pi \times R^2 - \pi \times r^2$

$= 3\pi \times R^2 + \pi \times r^2$

$= 3\pi \times 7^2 + \pi \times 7^2 = 616 \text{ cm}^2$

Question 88

Which of the following is the first alkali metal?

- A Lithium
- B Hydrogen
- C Francium
- D Sodium

Answer: A

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Question 89

What is the gain per cent, while selling 33 m of cloth, if there is a gain equal to the selling price of 11 m?

- A 60%
- B 50%
- C 25%
- D 45%

Answer: B

Explanation:

let the sp = Rs 1/m

man sold for 33m

so sp = Rs 33

he gain equal to the selling price of 11 m = Rs 11

cp = Rs 33 - Rs 11 = Rs 22

profit

50%

Question 90

Who presided over the inaugural meeting of the Constituent Assembly of India?

- A Dr. Rajendra Prasad
- B P. Upendra
- C Sachchidananda Sinha
- D Dr. B.R. Ambedkar

Answer: C

Question 91

Complete the series.

148, 150, 156, 168, (...)

A 174

B 182

C 176

D 188

Answer: D

Explanation:

148, 150, 156, 168, (...)

first difference

$$150 - 148 = 2$$

$$156 - 150 = 6$$

$$168 - 156 = 12$$

second difference

$$6 - 2 = 4$$

$$12 - 6 = 6$$

so next should be 8

$$12 + 8 = 20$$

now add 20 to 168

$$168 + 20 = 188$$

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Question 92

In how many years will Rs.5000 grow to Rs.10000 at 12.5% Simple Interest?

A 20 years

B 12 years

C 9 years

D 8 years

Answer: D

Explanation:

Amount = Principal + S.I

$$10000 = 5000 + S.I$$

$$S.I = 5000$$

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

$$5000 = \frac{5000 \times 12.5 \times T}{100}$$

$$T = 8 \text{ years}$$

Question 93

What will come in the place of '*'?

$$\begin{array}{r} 18 \\ * \end{array} \begin{array}{r} 2 \\ = 7 \end{array}$$

- A 63
- B 84
- C 14
- D 126

Answer: A

Explanation:

$$\begin{array}{r} 18 \\ * \end{array} \begin{array}{r} 2 \\ = 7 \end{array}$$

consider * = x

$$\begin{array}{r} 18 \\ x \end{array} \begin{array}{r} 2 \\ = 7 \end{array}$$

by doing cross multiplication,

$$18 \times 7 = 2 \times x$$

$$x = 63$$

Question 94

If $4 @ 9 \# 3 = 1$ and $4 @ 8 \# 4 = 2$, then $5 @ 6 \# 2 = ?$

- A 6
- B 9
- C 5
- D 2

Answer: D

Explanation:

$$4 @ 9 \# 3 = 1 \text{ and } 4 @ 8 \# 4 = 2$$

the no. we are getting is small so, minus and divide sign should be there

consider # = div

@ = minus

$$4 - 9 \div 3 = 1$$

$$1 = 1$$

similarly

$$4 - 8 \div 4 = 2$$

$$2 = 2$$

similarly do with $5 @ 6 \# 2$

$$5 - 6 \div 2 = 2$$

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Question 95

The Simple Interest on a sum of money for 2 years is Rs.50 and the Compound Interest on the same sum at the same rate for the same time is Rs.51.25. Find the rate of interest per annum.

- A 6%
- B 5%
- C 6.5%
- D 5.5%

Answer: B

Explanation:

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

$$50 = \frac{P \times R \times 2}{100}$$

$$PR = 2500$$

$$\text{compound interest} = P \left(1 + \frac{R}{100}\right)^n$$

$$\begin{aligned} 51.25 &= P \left(1 + \frac{R}{100}\right)^2 \\ &= P \left(1 + \frac{R}{100}\right) \left(1 + \frac{R}{100}\right) \\ &= \left(P + \frac{PR}{100}\right) \left(1 + \frac{R}{100}\right) \\ &= \left(P + \frac{2500}{100}\right) \left(1 + \frac{R}{100}\right) \\ &= (P + 25) \left(1 + \frac{R}{100}\right) \end{aligned}$$

$$51.25 \times 100 = (P + 25)(100 + R)$$

$$5125 = (P + 25)(100 + R)$$

$$5125 = P100 + PR + 2500 + 25R$$

$$5125 = P100 + 2500 + 2500 + 25R$$

$$125 = P100 + 25R$$

$$125 = 25(4P + R)$$

$$5 = (4 \times 2500 + R)$$

$$R = 4.99 = 5\%$$

Question 96

A boat goes upstream at 36 km/h and downstream at 40 km/h. The distance covered in each trip being the same, find the speed of boat in still water.

- A 34 km/h
- B 2 km/h
- C 38 km/h
- D 45 km/h

Answer: C

Explanation:

upstream at 36 km/h and downstream at 40 km/h.

$$\text{Speed of boat} = \frac{\text{speed of upstream} + \text{speed of downstream}}{2}$$

$$= \frac{36 + 40}{2}$$

$$= 38 \text{ km/h}$$

Question 97

If P and Q together can do a job in 15 days, Q and R together can do it in 12 days and P and R together can do the same in 20 days, then in how many days will the job be completed, if all the three work together?

- A 10 days
- B 6 days
- C 4 days
- D 14 days

Answer: A

Explanation:

$$P+Q = 15 \text{ days}$$

$$Q+R = 12 \text{ days}$$

$$P+R = 20 \text{ days}$$

$$\text{Total work} = \text{lcm}(15,12,20) = 60 \text{ days}$$

$$(P+Q)\text{'s efficiency} = 60 \div 15 = 4$$

$$(Q+R)\text{'s efficiency} = 60 \div 12 = 5$$

$$(P+R)\text{'s efficiency} = 60 \div 20 = 3$$

$$\text{total efficiency} = 2(P+Q+R) = 12$$

$$= (P+Q+R) = 6$$

$$\text{time taken} = \text{work} \div \text{efficiency}$$

$$= 60 \div 6 = 10 \text{ days}$$

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Question 98

What is the chemical symbol for nitrogen gas?

- A N^+
- B Ni
- C N_2
- D Na

Answer: C

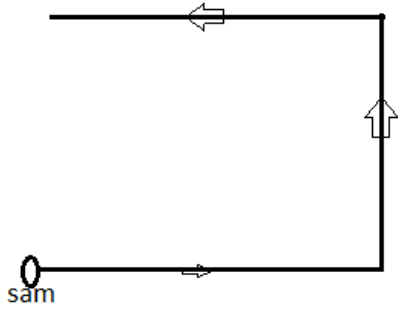
Question 99

Sam is facing east and moves 5 km forward. After reaching 5 km, he turns left side two times. Which side is he facing now?

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

Answer: D

Explanation:



West

Question 100

Which word will best complete the relationship given below?
Needle : Sew :: Knife : ?

- A Grind
- B Drive
- C Feed
- D Cut

Answer: D

Explanation:

Needle : Sew :: Knife : ?

With the help of Needle we can sew the clothes
similarly

With the help of Knife we can cut things

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