



RRB NTPC 6 April 2016 - Shift 2

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RRB NTPC 6 April 2016 - Shift 2

Instructions

For the following questions answer them individually

Question 1

A recently discovered bird species named 'Himalayan Forest Thrush' was found in

- A Dehradun
- B Northeast India
- C Uttarakhand
- D Ladakh Region

Answer: B

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Question 2

Leprosy is also known as

- A Angina
- B Hansen's disease
- C Gaucher disease
- D Hodgkin disease

Answer: B

Question 3

Find the odd one out in relation world heritage sites.

- A Rashtrapati Bhavan
- B Chatrapati Shivaji Terminus
- C Taj Mahal
- D Sun Temple

Answer: A

Question 4

One side of a rectangle is 12 m and its diagonal is 13 m. Find its area.

- A 60 sq.m
- B 55 sq.m
- C 50 sq.m
- D 45 sq.m

Answer: A

Explanation:

It is given that ;

one of the side of rectangle = 12 m

Diagonal of Rectangle = 13 m

Other Side of Rectangle = $\sqrt{(Diagonal)^2 - (Side)^2}$

Other Side of Rectangle = $\sqrt{13^2 - 12^2}$

Other Side of Rectangle = 5 m

Now, According to the Question's Statement!

We have to find the Area of Rectangle;

Area of Rectangle = $5 \times 12m^2$

Area of Rectangle = $60 m^2$

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Question 5

Who was the coach for U-19 World Cup (2016) held in Bangladesh?

- A Rahul Dravid
- B Virendra Sehwag
- C Sourav Ganguly
- D Anil Kumble

Answer: A

Question 6

Read the given statements carefully and answer the question.

Statement:

- I. Domestic price of petrol has gone down.
- II. International price of crude oil has decreased.

- A I is the cause and II is the effect.
- B II is the cause and I is the effect.
- C I and II are independent of each other.
- D I and II are effects of independent causes.

Answer: B

Explanation:

Statement:

- I. Domestic price of petrol has gone down.
- II. International price of crude oil has decreased.

due to decrease in price rate of petrol in International market , the petrol price also gone down in domestic market so,

II is the cause and I is the effect.

Question 7

In a map drawn to a scale of 1 cm = 18.5 km. the distance between places A and B = 22.25 cm. Find the actual distance in kilometer.

- A 411.625
- B 425.615
- C 412.625
- D 405.615

Answer: A

Explanation:

1 cm = 18.5 km

22.25 cm = ?

$$? = \frac{18.5}{1} \times 22.25$$

$$= 411.625 \text{ km}$$

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Question 8

Find the odd one out.

- A Silent valley
- B Silicon valley
- C Indus valley
- D Damodar valley

Answer: B

Question 9

Who was conferred the Arjuna Award for badminton in 2015?

- A Kidambi Srikanth
- B Saina Nehwal
- C Chetan Anand
- D Rohit Sharma

Answer: A

Question 10

If 'you are john' is written as 'net let fat', 'who are you' is 'let wet net' and 'John is good' is 'get set fat', which represents 'is'?

- A set
- B get
- C fat
- D cannot be determined.

Answer: D

Explanation:

you are john' 'net let fat'.(1)
'who are you' 'let wet net' (2)
'John is good' 'get set fat' (3)
john is common in (1) and (3)
= fat
is' and 'good ' is not common
so 'is' may be set or get
we can't determine

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Question 11

Till the end of 2015, India has established ___ research stations in Antarctica.

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

Answer: B

Question 12

A train running at 60 kmph crosses a pole in 30 seconds. What is the length of the train?

- A 250 m
- B 750 m
- C 500 m
- D 450 m

Answer: C

Explanation:

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

$$60 \text{ kmph} = \frac{\text{distance}}{\text{timetaken}}$$

$$1860 \text{ msec} = \frac{\text{distance}}{30}$$

$$\text{distance} = 500 \text{ m}$$

Question 13

Jantar Mantar in Delhi was built by Maharaja

- A Jai Singh I of Jaipur
- B Jai Singh II of Jaipur
- C Ram Singh I

D Bishan Singh

Answer: B

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Question 14

A statement followed by some conclusions are given below.

Statement: Customer service cannot be enforced. It has to come from within.

Conclusions:

I. Customer service should be voluntary.

II. Employees do not serve customers.

Find which of the given conclusions logically follow from the given statement.

A Only conclusion I follows.

B Only conclusion II follows.

C Both I and II follow.

D Neither I nor II follows.

Answer: A

Explanation:

Statement: Customer service cannot be enforced. It has to come from within.

Conclusions:

I. Customer service should be voluntary.

Customer service should be done without payment or acting of one's own free will. This follow the statement

II. Employees do not serve customers.

not follow

Question 15

As per the India State Forest Report 2015, ____ has the largest forest cover in terms of its area.

A Assam

B Jammu and Kashmir

C Madhya Pradesh

D Anmachal Pradesh

Answer: C

Question 16

$9876 + 34.567 - ? = 9908.221$

A 23.45

B 234.6

C 2.345

D 2.346

Answer: D

Explanation:

$$9876 + 34.567 - ? = 9908.221$$

$$9876 + 34.567 - 9908.221 = ?$$

$$= 2.346$$

RRB Group-D Previous Papers

Question 17

A's share is 2 times that of B whose share is 3 times that of C. Rs. 1800/- is to be given to them in that ratio. B's share is

A Rs. 1080

B Rs. 540

C Rs. 180

D Rs. 900

Answer: B

Explanation:

let C share be x

then B share is $3x$

and A share is $2 \times 3x = 6x$

$$x + 3x + 6x = 1800$$

$$x = 180$$

$$\text{B share} = 3x = 3 \times 180 = 540$$

Question 18

Cell phone : Communication :: Cycle : ?

A Walking

B Gym

C Mechanization

D Transportation

Answer: D

Question 19

Name the security force which does not fall under Union Home ministry.

A Sashastra Seema Bal

B Border Security Force

C Railway Protection Force

D Indo-Tibetan Border Police Force

Answer: C

Question 20

The greenhouse gas which is called laughing gas is

- A Methane
- B Carbon dioxide
- C Nitrous oxide
- D Sulphur dioxide

Answer: C

Question 21

If $(a + b + c) = 6$ and $a^2 + b^2 + c^2 = 14$, then $(ab + bc + ca) = ?$

- A 22
- B 11
- C 33
- D 44

Answer: B

Explanation:

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

$$(6)^2 = 14 + 2(ab + bc + ca)$$

$$36 - 14 = 2(ab + bc + ca)$$

$$(ab + bc + ca) = 11$$

Question 22

Which one is called the dwarf planet?

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

Answer: D

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Question 23

Major part of biogas is

- A Hydrogen
- B Nitrogen
- C Methane

D Carbon dioxide

Answer: C

Question 24

Mac OS was introduced by

A IBM

B Microsoft

C Apple

D Micromax

Answer: C

Question 25

Find the missing (?) in the series: BDACE, GIFHJ, ? QSPRT

A LMKNO

B NLKOM

C LNKMO

D KLNOM

Answer: C

Explanation:

BDACE, GIFHJ, ? QSPRT

ABCDE

then

FGHIJ

then

KLMNO which is written as LNKMO

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Question 26

Find the least number required to be added to 3105 so that it is exactly divisible by 3, 4, 5 and 6.

A 95

B 12

C 11

D 15

Answer: D

Explanation:

$LCM\ of\ 3, 4, 5\ and\ 6 = 2 \times 3 \times 2 \times 5 \times 1 \times 1 = 60$

On dividing 60 with 3105, we get remainder 45

\therefore Number to be added = $60 - 45 = 15$

Question 27

Two vessels of equal volume contain milk and water in the ratio 1:3 and 2:1. If they are mixed together, what is the new ratio?

- A 11:13
- B 13:11
- C 9:11
- D 11:9

Answer: A

Explanation:

ratios of milk and water are 1:3 and 2:1

$1+3=4$ and $2+1=3$ the LCM of 4 and 3 is 12

Units of milk $1 \times 3 = 3$ units of milk

$2 \times 4 = 8$

units of water $3 \times 3 = 9$

units of water $1 \times 4 = 4$

units of milk $8+3=11$

units of water and $9+4=13$

The ratio is 11:13

Question 28

..... extinguishes fire.

- A O_2
- B CO_2
- C SO_2
- D NO_2

Answer: B

Explanation:

Carbon Dioxide fire extinguishers **extinguish fire** by taking away the oxygen element of the **fire** triangle and also be removing the heat with a very cold discharge.

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Question 29

Four pairs of words are given. Find the odd one out.

- A Saturn : Planet
- B Sun : Star
- C Milky Way : Constellation

D Titan : Satellite

Answer: C

Explanation:

Saturn is a planet

similarly

Sun is star

similarly

Titan is satellite

but

Milkyway is not a Constellation

it is a Galaxy

Question 30

After entering Bangladesh, the main branch of the Ganges is known as

A Hooghly river

B Jamuna river

C Meghna river

D Padma river

Answer: D

Question 31

The efficiency of work of P and Q are in the ratio 5 : 7. What will be the ratio of number of days taken by them to finish the work?

A 7 : 5

B 3 : 4

C 4 : 3

D 5 : 7

Answer: A

Explanation:

We know that efficiency $\propto \frac{1}{\text{no. Of working days}}$

Given that efficiency of work P and Q are in the ratio of 5 : 7

\therefore Ratio of number of days taken by them to finish the work = 7 : 5

RRB GK Material (Download Pdf)

Instructions

Consider the following information and answer questions based on it.

Among 60 students. 12 like only algebra, 13 like only geometry, 10 like only trigonometry, 5 like both algebra and trigonometry, 8 like only physics, 5 like both physics and geometry and the remaining like both algebra and physics.

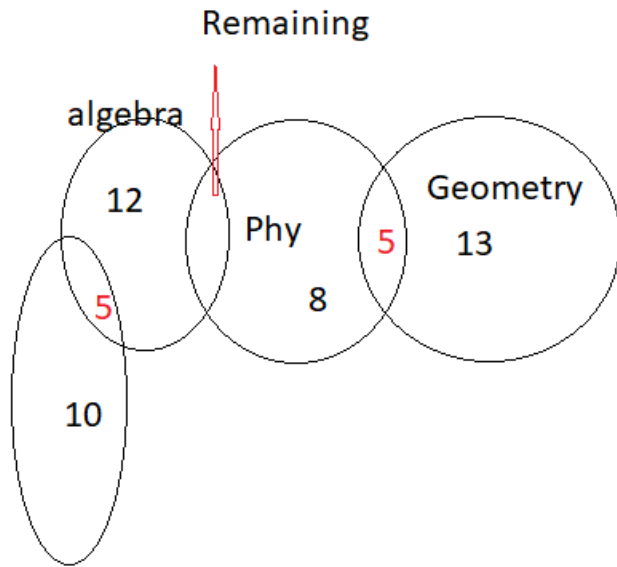
Question 32

The number of students who like physics but not geometry is

- A 8
- B 13
- C 15
- D 17

Answer: C

Explanation:



Trigonometry

total = 60

The number of students who like physics but not geometry is
 = phy + (phy and algebra)
 = 8 + 7 = 15

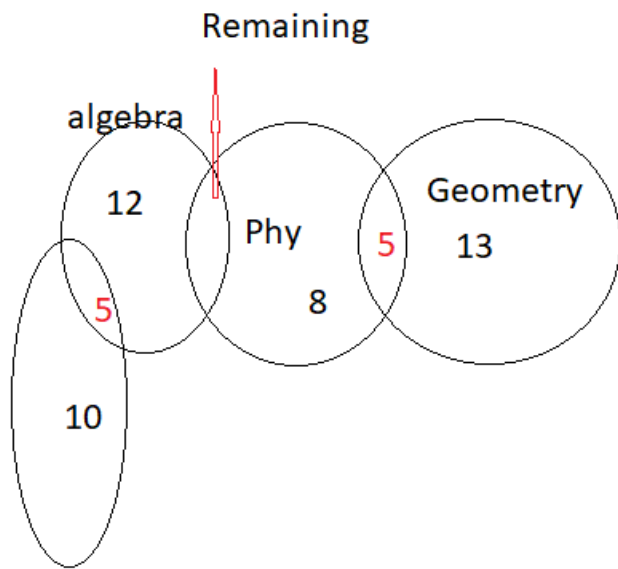
Question 33

How many students like more than one subject?

- A 5
- B 10
- C 12
- D 17

Answer: D

Explanation:



Trigonometry

total = 60

Algebra and Phy = (total - algebra - phy - geometry - tri - phy and geo - algebra and tri)

= (60 - 12 - 8 - 13 - 10 - 5 - 5)

= 7

= phy and geo + algebra and tri + algebra and phy

= 5 + 5 + 7 = 17

Question 34

The ratio of students who like algebra to those who like geometry is

A 12 : 13

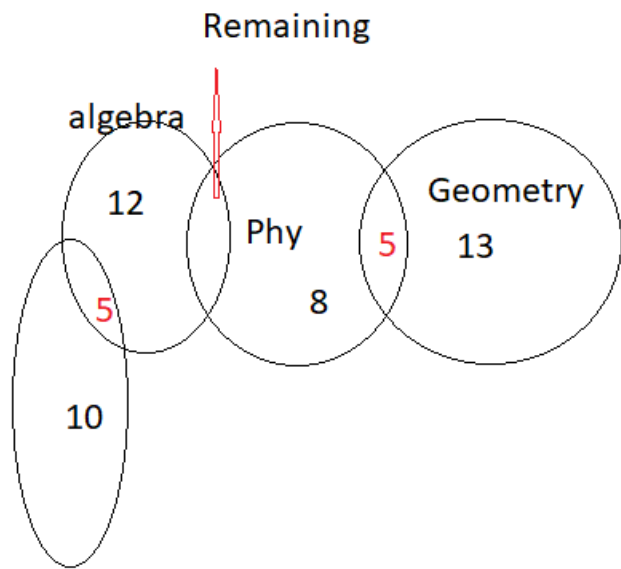
B 4 : 3

C 17 : 18

D 17 : 13

Answer: B

Explanation:



Trigonometry

total = 60

Algebra and Phy = (total - algebra-phy-geometry- tri-phy and geo - algebra and tri)

$$= (60 - 12 - 8 - 13 - 10 - 5 - 5)$$

$$= 7$$

The ratio of students who like algebra to those who like geometry is

$$= \frac{24}{18} = \frac{4}{3}$$

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Instructions

For the following questions answer them individually

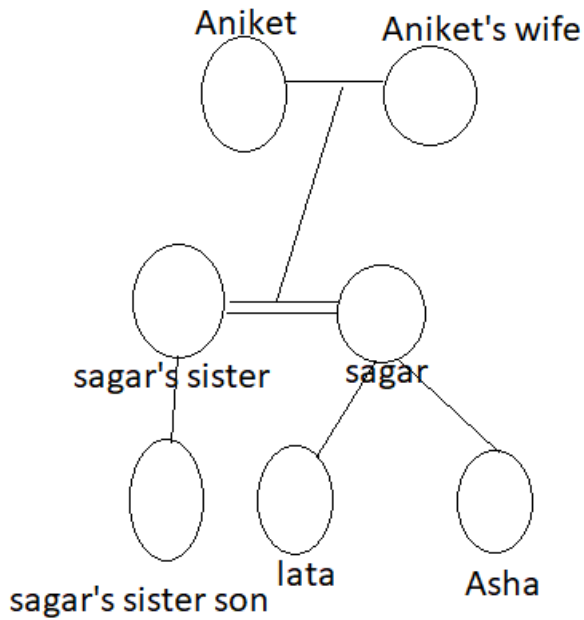
Question 35

Sagar has two daughters, Lata and Asha. Asha's only paternal aunt's son's grandfather is Aniket. How is Sagar related to Aniket's wife?

- A Father
- B Son
- C Grandson
- D Grandfather

Answer: B

Explanation:



Sagar is Son to Aniket's wife

Question 36

If $OWL = 50$ and $N = 14$, then $TIME$ is

- A 45
- B 47
- C 43
- D 49

Answer: B

Explanation:

$OWL = 50$ and $N = 14$,

Addition of the place value

$T = 20$

$I = 9$

$M = 13$

$E = 5$

$= 47$

Question 37

In a certain code, 'ride' = 3218, 'talk' = 7564, 'dirt' = 4213 and 'like' = 8562. Which digit represents 'a'?

- A 9
- B 3
- C 5
- D 7

Answer: D

Explanation:

'ride' = 3218,...(1)

'talk' = 7564,...(2)

'dirt' = 4213(3)

'like' = 8562...(4)

i is common in (1) (3) and (4) = 2

e is common in (1) (4) = 8

t is common in (2) (3) = 4

l is common in (2) (3) = 5

k is common in (2) (4) = 6

so a = 7

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Question 38

Which of the following is not true in relation to the Global Positioning System?

- A It is a space-based navigation system.
- B It can predict cyclones.
- C It can be used to map vehicular traffic.
- D It can be used for in-car navigation

Answer: B

Question 39

If the posts of the President and Vice-president fall vacant, who will act as the President of India?

- A Speaker of Lok Sabha
- B Prime Minister of India
- C Chief Justice of India
- D Union Council of Ministers

Answer: C

Question 40

The average of first three out of four numbers is 16. The average of last three numbers is 14. The sum of first and last number is 16. The last number is

- A 17
- B 13
- C 5
- D 7

Answer: C

Explanation:

let the four numbers be a,b,c,d

the average of first three is 16

$$\text{average} = \frac{\text{sum of numbers}}{\text{total count}}$$

$$16 = \frac{a+b+c}{3}$$

$$a+b+c = 48$$

similarly average of last three

$$b+c+d = 14 \times 3 = 42$$

also given $a+d = 16$

$$a = 16 - d$$

putting the value of a in equation 1

$$16 - d + b + c = 48$$

$$-d + b + c = 32$$

now adding this with equation 2 we get

$$42+32 = b+c+d+b+c-d$$

$$74 = 2(b+c)$$

$$b+c = 37$$

we know that

$$b+c+d = 42$$

$$37 + d = 42$$

therefore $d = 5$

so the last number is 5 i.e option C

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Question 41

The difference between the ages of two sisters is 2 years when father's age was 52. Father is elder by 2 years to mother. Elder sister's age is half of mother's age. Find the age of younger sister.

A 27

B 21

C 25

D 23

Answer: D

Explanation:

Let the elder sister's age be x and younger sister's age be y

Given that difference between two the ages of to sisters is 2 years

$$\Rightarrow x - y = 2$$

Given that father's age is 52, then mother's age = 50

Also given that elder sister's age x = half of the mother's age = $\frac{50}{2} = 25$

Substitute $x = 25$ in $x - y = 2$

$$\Rightarrow 25 - y = 2$$

$$\Rightarrow y = 25 - 2 = 23$$

Question 42

The maturity value after three years, of a certain sum at 15% p.a. simple interest, is Rs. 8,700/-. Find the principal amount.

- A Rs. 5,000
- B Rs. 6,000
- C Rs. 5,500
- D Rs. 6,500

Answer: B

Explanation:

let principal amount = $100x$

$$\text{interest} = 100x \times 3 \times \frac{15}{100} = 45x$$

$$\text{maturity amt} = 100x + 45x = 145x$$

$$\text{given } 145x = 8700$$

$$x = \frac{8700}{145}$$

$$= 60$$

$$\text{so principal amount } 60 \times 100 = \text{Rs}6000$$

Question 43

If PIXIE is OLD= then ELEANOR is

- A DKDAMNQ
- B DDKAMNR
- C DKDANMR
- D DJDAMNQ

Answer: A

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Question 44

The marked prices of big and small note books are Rs. 10 and Rs. 15 respectively. A student bought 5 dozen small and 10 dozen big note books at a total discount of 5%. Find the total discount amount.

- A Rs. 100
- B Rs. 110
- C Rs. 120
- D Rs. 105

Answer: D

Explanation:

Cost of per small notebook=15

Cost. big notebook=10

No. of small notebooks bought = 5 dozens = $12 \times 5 = 60$

No. of big notebooks bought = 10 dozens = $12 \times 10 = 120$

Total cost of small notebooks = $60 \times 15 = 900$

Total cost of big notebooks = $120 \times 10 = 1200$

Total cost of both kind of notebooks = 2100

Discount=5%

= $2100 \times \frac{5}{100}$

= 105

Question 45

An event happening once in 4 years is described as

- A Biennial
- B Quadrennial
- C Triennial
- D Perennial

Answer: B

Question 46

Read the following data carefully and answer the question based on it.

(i) 'A + G' means 'A is mother of G'

(ii) 'A ÷ G' means 'A is daughter of G'

(iii) 'A - G' means 'A is husband of G'

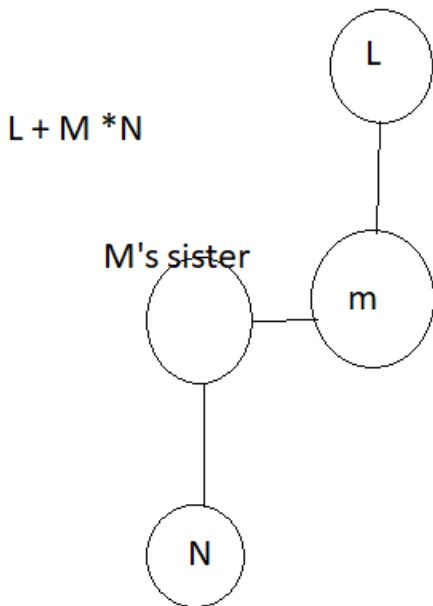
(iv) 'A × G' means 'A is maternal aunt of G'

If L + M × N then how is L related to N?

- A Aunt
- B Mother
- C Daughter
- D Grandmother

Answer: D

Explanation:



L is the Grandmother of N.

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Question 47

Find the value of $[(525 + 252)^2 - (525 - 252)^2] / (525 \times 252)$.

- A 3
- B 4
- C 5
- D 6

Answer: B

Explanation:

$$(a + b)^2 = a^2 + 2 \times a \times b + b^2$$

$$(a - b)^2 = a^2 - 2 \times a \times b + b^2$$

$$(a + b)^2 - (a - b)^2 = 4 \times a \times b$$

so,

$$[(525 + 252)^2 - (525 - 252)^2] / (525 \times 252).$$

$$=) \frac{4 \times a \times b}{a \times b}$$

$$=) \frac{4 \times 525 \times 252}{525 \times 252}$$

$$= 4$$

Question 48

If $2 \cos \theta = \sqrt{3}$, $\cos \theta \times \tan \theta = ?$

- A 1

B $\sqrt{3}/3$

C $\sqrt{3}/2$

D $1/2$

Answer: D

Question 49

A generator converts

A mechanical energy into electrical energy.

B electrical energy into chemical energy.

C thermal energy into electrical energy.

D electrical energy into light energy.

Answer: A

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Question 50

A man has equal number of five, ten and twenty rupee notes amounting to Rs. 385. Find the total number of notes?

A 13

B 11

C 15

D 21

Answer: B

Explanation:

Let there are x no. Of notes

so

$$5x + 10x + 20x = \text{Rs } 385$$

$$35x = 385$$

$$x = 11$$

Question 51

Which key combination is used for pasting text in MS Word?

A Ctrl + v

B Ctrl + z

C Alt + r

D Alt + f4

Answer: A

Explanation:

Ctrl + v is used for pasting text,

Ctrl + c is used for copying text and

Ctrl + x is used for cutting text

Ctrl + z is to undo a specific command

Alt + f4 is to close an opened/working window.

Alt + R is to review/recall

Question 52

Find the median of the data set: 1.9, 8.4, 3.6, 5.8

A 5.1

B 4.7

C 5.2

D 5.6

Answer: B

Explanation:

Arrange the order n Ascending order

1.9, 3.6, 5.8 8.4,

middle term by 2

$$= \frac{3.6+5.8}{2} = 4.7 \text{ (Since even no of numbers)}$$

RRB Group-D Previous Papers

Question 53

In the following equation, if the mathematical operators '+' and '×' are interchanged then the value of $4 - 6 + 1 \times 15 \div 3$ will be

A 24

B 20

C -5

D -4

Answer: B

Explanation:

$$4 - 6 + 1 \times 15 \div 3$$

$$4 \times 6 + 1 - 15 \div 3$$

Apply bodmass rule

$$4 \times 6 + 1 - 15 \div 3$$

$$4 \times 6 + 1 - 5$$

$$24 + 1 - 5$$

$$20$$

Question 54

Which one is not a network protocol?

- A SSH
- B HTML
- C PPP
- D POP

Answer: B

Question 55

The mean of first 11 natural numbers is

- A 5.5
- B 6
- C 6.6
- D 5

Answer: B

Explanation:

mean = $\frac{\text{sum of the numbers}}{\text{no. of terms}}$

$$= \frac{1+2+3+4+5+6+7+8+9+10+11}{11}$$
$$= 6$$

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Question 56

National Air Quality Index is determined on the basis of concentration of pollutants.

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

Answer: D

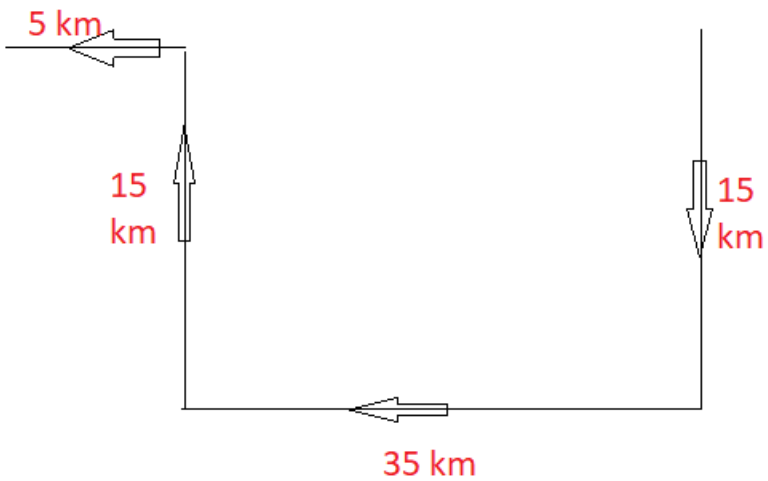
Question 57

Starting from her house a woman walks 15 km towards South. She turns right and walks 35 km. Again she turns right and walks 15 km. Then she turns left and walks 5 km. How far is her house now?

- A 35
- B 40
- C 50
- D 15

Answer: B

Explanation:



$= 3 \text{ km} + 35 \text{ km} = 40 \text{ km}$

Question 58

Motion of a spinning 'top' is an example of

- A Centripetal Force
- B Centrifugal Force
- C Gravitational Force
- D Frictional Force

Answer: A

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Question 59

Read the given statements carefully and answer the question.

Statements:

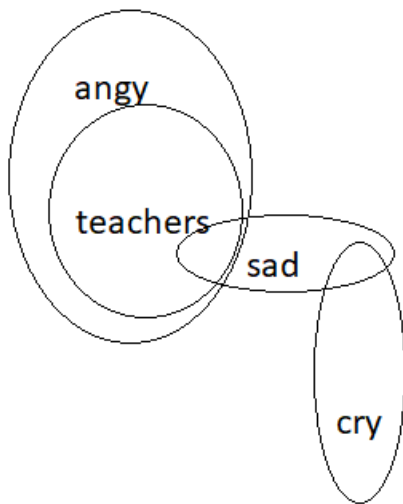
1. All teachers get angry.
2. Some teachers are sad.
3. Sad people may cry.

Which of the following conclusion is true?

- A All sad people cry.
- B Some teachers may cry.
- C All angry people are teachers.
- D All sad people get angry.

Answer: B

Explanation:



Some teachers may cry.

possibility case will always true

Question 60

If the mathematical operator ' \times ' means A, ' $+$ ' means R, ' \div ' means E and means B, then the value of $24B6E2A9R 17is$

- A 14
- B -3
- C 17
- D -10

Answer: A

Question 61

Which one is anti-virus?

- A CodeRed
- B Melissa
- C CryptoLocker
- D Dr.Web

Answer: D

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Question 62

PM inaugurated the XII South Asian Games on 5th February 2016 at

- A Lucknow
- B Guwahati
- C Kolkata
- D Ahmadabad

Answer: B

Question 63

Name the chess champion against whom Viswanathan Anand lost in 2014 World Chess Championship.

- A Vladimir Kramnik
- B Veselin Topalov
- C Boris Gelfand
- D Magnus Carlsen

Answer: D

Question 64

Which one is different from the other three?

- A Spinach
- B Lentil
- C Coriander
- D Lettuce

Answer: B

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Question 65

Expand $(a - 4)^3$

- A $a^3 - 12a^2 + 48a + 64$
- B $a^3 - 48a^2 + 12a - 64$
- C $a^3 + 12a^2 - 48a - 64$
- D $a^3 - 12a^2 + 48a - 64$

Answer: D

Explanation:

$$(a - b)^3 = a^3 + 3 \times a^2 \times b + 3 \times a \times b^2 - b^3$$

$$(a - 4)^3 = a^3 + 3 \times a^2 \times 4 + 3 \times a \times 4^2 - 4^3$$

$$a^3 - 12 \times a^2 + 48 \times a - 64$$

Question 66

B does 50% of a work in 20 days. C joins B and they together finish the remaining work in 4 days. C alone can do the whole work in days.

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

Answer: A

Explanation:

B does 50% of a work in 20 days.

means $\frac{1}{2}$ work = 20 days

So

B does 100% of a work in 40 days.

C joins B and they together finish the remaining work ($\frac{1}{2}$ work left) in 4 days

C joins B and they together finish the 100% work in 8 days

B = 40

C + B = 8

lcm = total work = 40

efficiency of B = 1

efficiency of B + C = 5

so C efficiency = 5 - 1 = 4

C alone can do the whole work in = $\frac{40}{4} = 10$ days

Question 67

Losong festival is popular in

- A Himachal Pradesh
- B Sikkim
- C Arunachal Pradesh
- D Tripura

Answer: B

[RRB GK Material \(Download Pdf\)](#)

Question 68

The most popular folk dance of Tamil Nadu

- A Karagam
- B Koodiyattam
- C Yakshagana

D Kathakali

Answer: A

Question 69

The loss in selling an article for Rs. 1235 was 5%. At what price should it be sold to get a profit of 10%?

A Rs. 1,335

B Rs. 1,380

C Rs. 1,430

D Rs. 1,300

Answer: C

Explanation:

Let cost price = X

Loss = 5% of X

$$= 0.05X$$

selling price = cp - loss

$$= X - 0.05X$$

$$= 0.95 X$$

Given that S.P = Rs 1235

so,

$$1235 = 0.95X$$

$$X = \text{Rs } 1300$$

given 10% profit

so, 10% of 1300 = 130

$$\text{s.p} = \text{cp} + \text{profit} = 1300 + 130 = \text{Rs } 1430$$

Question 70

If $22x - 40 = 207 + 3x$, then $x = ?$

A 14

B 13

C 12

D 11

Answer: B

Explanation:

$$22x - 40 = 207 + 3x$$

$$22x - 3x = 207 + 40$$

$$19x = 247$$

$$x = \frac{247}{19}$$

$$= 13$$

Question 71

The ratio of two numbers is 4 : 3 and their HCF is 8. Find their LCM.

- A 48
- B 96
- C 64
- D 84

Answer: B

Explanation:

Let the number be $3x$ and $4x$

$LCM \times HCF = \text{product of two numbers}$

$$8 \times LCM = 3x \times 4x$$

$$LCM = \frac{12x^2}{8}$$

$$LCM = \frac{3x^2}{2}$$

LCM of $3x$ and $4x = 12x$

$$12x = \frac{3x^2}{2}$$

$$x = 8$$

the number be 3×8 and $4 \times 8 = 24, 32$

$$LCM = (24, 32) = 96$$

Question 72

The technique used for printing 'RESERVE BANK OF INDIA' appearing on the face of the Indian currency notes is

- A Intaglio printing
- B Micro lettering
- C Latent printing
- D Screen printing

Answer: A

Question 73

The aim of the Civil Disobedience Movement of 1929 was

- A complete disobedience of the orders of the British Government.
- B to protest the Chauri Chaura incident.
- C partial disobedience of the orders of the British Government.

D to ensure all civil rights of the citizens are granted by the Government.

Answer: A

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Question 74

The British Government agreed to grant independence to India in

- A 1944
- B 1945
- C 1946
- D 1947

Answer: C

Question 75

Y is R's mother's mother-in-law's only daughter and Q's wife. How is Q related to R?

- A Paternal Uncle
- B Nephew
- C Husband
- D Father

Answer: A

Question 76

Find the similarity in the following:
Ginger, Turnip, Carrot, Radish

- A All are red in colour.
- B All are round in shape.
- C All of them grow above the soil.
- D All are roots.

Answer: D

Explanation:

Ginger, Turnip, Carrot, Radish

This all are roots.

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Question 77

Rearrange the jumbled letters to make a meaningful word and then select the one which is different.

- A SUVNE

- B APTLE
- C ARMS
- D RUJTIPE

Answer: B

Explanation:

SUVNE : VENUS

APTLE : PLATE

ARMS : MARS

RUJTIPE : JUPITER

VENUS, MARS and JUPITER are planets

Question 78

The surface-to-air, Akash missile, was test fired from

- A Sriharikota
- B Abdul Kalam Island
- C Thumba
- D Pokhran

Answer: B

Question 79

An article was sold at Rs. 920 at a profit of 15%. Find the selling price to get a profit of 20%.

- A Rs. 1,000
- B Rs. 980
- C Rs. 960
- D Rs. 940

Answer: C

Explanation:

Let cost price = X

profit = 15% of X

= 0.15X

selling price = C.P + profit

= X + 0.15X

= 1.15 X

Given that S.P = Rs 920

so,

920 = 1.15 X

X = RS 800

given 20% profit

so, 20% of 800 = 160

$$s.p = c.p + \text{profit} = 800 + 160 = \text{Rs } 960$$

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Question 80

Yeast used in making bread

- A acts as a catalyst for fermentation.
- B does not help the process of fermentation.
- C makes it tasty.
- D acts as a preservative.

Answer: A

Question 81

The area of a triangle is 456 sq.cm and its height is 24 cm. The length of its base is

- A 32
- B 34
- C 36
- D 38

Answer: D

Explanation:

$$\text{area of triangle} = 0.5 \times \text{base} \times \text{height}$$

$$456 = 0.5 \times \text{base} \times 24$$

$$= 38 \text{ cm}$$

Question 82

Louis Pasteur was known for discovery of

- A Polio vaccine
- B Chicken pox vaccine
- C Small pox vaccine
- D Rabies vaccine

Answer: D

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Question 83

Find the missing (?) in the series: 1, 1, 8, 4, 27, 9, ?, 16

- A 32
- B 48

C 64

D 72

Answer: C

Explanation:

1, 1, 8, 4, 27, 9, ?, 16

It contains two alternate series

1, 8, 27, ? (cube of the numbers)

1, 4, 9, 16 (square of the numbers)

so,

1, 8, 27, $4^3 = 64$ (cube of the numbers)

1, 4, 9, 16 (square of the numbers)

Instructions

Consider the following information and answer questions based on it.

Seven students J, K, L, M, N, O and P are standing in a row, in random order, from left to right, such that –

- 1- P, O, K and N do not stand on any of the extreme ends.
2. J is to the immediate left of P and immediate right of O.
3. M is not at the center.
4. K is to the immediate right of N and immediate left of L.

Question 84

The student standing to the immediate left of O is

A L

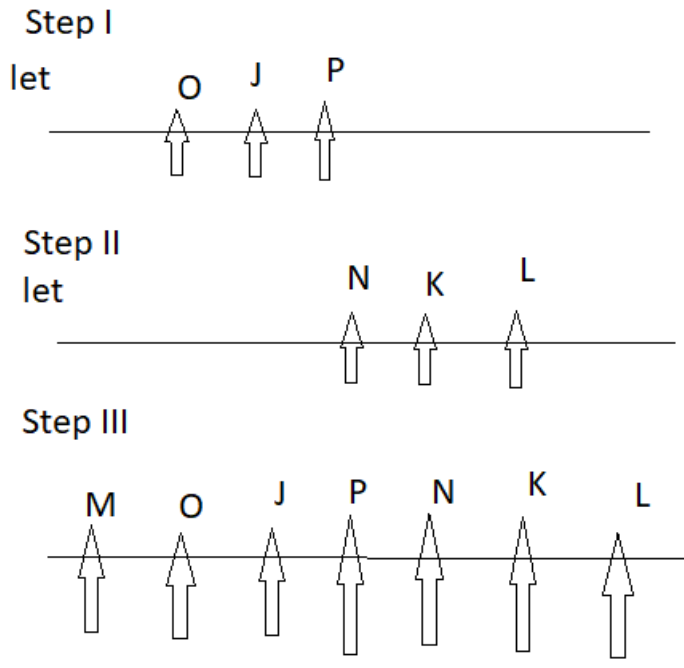
B J

C M

D P

Answer: C

Explanation:



M is standing to the immediate left of O

Question 85

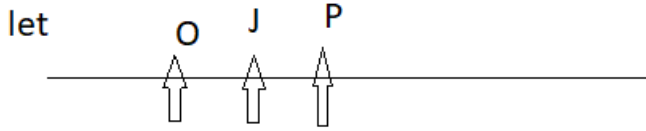
Who is at the center of the row?

- A N
- B J
- C P
- D K

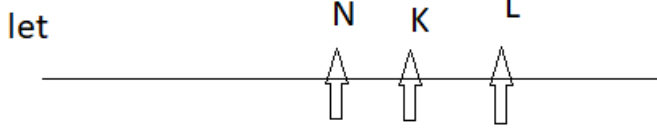
Answer: C

Explanation:

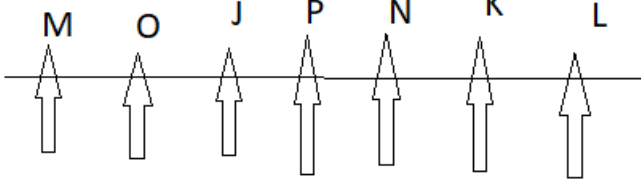
Step I



Step II



Step III



P

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Question 86

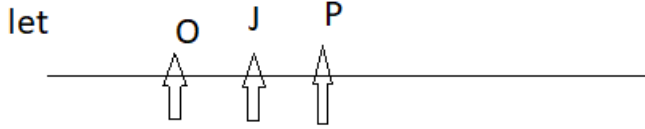
Who stands fifth from the left of the row?

- A K
- B P
- C N
- D J

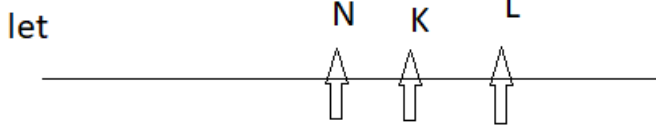
Answer: C

Explanation:

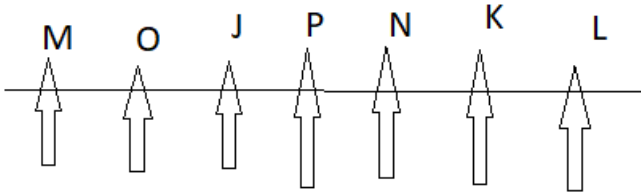
Step I



Step II



Step III



N

Instructions

For the following questions answer them individually

Question 87

What is the difference between the maturity value of two deposits of Rs.5,000 each invested for 2 years (i) at 5% simple interest and (ii) at the same interest compounded annually?

- A Rs. 11.00
- B Rs. 11.50
- C Rs. 12.00
- D Rs. 12.50

Answer: D

Explanation:

maturity value at compound interest

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

$$= 5000\left(1 + \frac{5}{100}\right)^2$$

$$= 5000 \times \left(\frac{21}{20}\right)^2$$

$$= 900 \times \left(\frac{11}{10}\right) \times \left(\frac{11}{10}\right)$$

$$= \text{Rs}5512.5$$

maturity value at simple interest

$$= 5000 + \frac{P \times R \times T}{100}$$

$$= 5500$$

$$\text{difference} = 5512.5 - 5500 = 12.5$$

Rs 12.50

Question 88

The area of a trapezium is 18 sq.cm. Its height and base are 3 cm and 5 cm respectively. Find the length of the side parallel to the base.

- A 4 cm
- B 6 cm
- C 8 cm
- D 7 cm

Answer: D

Explanation:

Area of trapezium = $0.5 \times \text{Sum of parallel sides} \times \text{Height} = 0.5 \times (a + b) \times h$

$$18 = 0.5 \times (5 + b) \times 3$$

$$18 = 1.5 \times (5 + b)$$

$$b = 7 \text{ cm}$$

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Question 89

There are zones in Indian Railways.

- A 8
- B 18
- C 16
- D 12

Answer: B

Instructions

Consider the table and answer questions based on it
The following table represents the category wise count of books in four local libraries.

Category	ABL	GHL	MNL	PQL
Self-help	150	170	200	200
Nonfiction	500	600	550	600
Fiction	750	610	700	600
Management	100	130	100	110
Comics	175	100	100	75
Technical	115	100	150	200

Question 90

The self-help books in library GHL is how much less than its fictional books?

- A 340
- B 430

C 440

D 330

Answer: C

Explanation:

self-help books in library GH = 170

fictional books = 610

$$= 610 - 170 = 440$$

Question 91

Which library has the highest total count of books?

A ABL

B GH

C MNL

D PQL

Answer: C

Explanation:

ABL = 1790

GH = 1710

MNL = 1800

PQL = 1785

the highest total count of books = MNL

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Question 92

The difference between the total number of nonfiction and management books of all four libraries is

A 1850

B 1810

C 2250

D 1800

Answer: B

Explanation:

Nonfiction = $(500+600+550+600) = 2250$

Management = $(100+130+100+110) = 440$

difference = 1810

Instructions

For the following questions answer them individually

Question 93

Evaluate $(\sin \theta / \cos \theta) \times (\cot \theta / \operatorname{cosec} \theta)$

- A $\cos \theta$
- B $\sin \theta$
- C $\tan \theta$
- D $\sec \theta$

Answer: B

Question 94

A statement followed by some conclusions are given below.

Statement: Unlike Aryabhata, moon is a natural satellite of the Earth.

Conclusions:

I. Aryabhata is not a satellite.

II. Moon is star and Aryabhata is a satellite.

Find which of the given conclusions logically follow from the given statement.

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

Answer: D

Explanation:

Statement: Unlike Aryabhata, moon is a natural satellite of the Earth.

Conclusions:

I. Aryabhata is not a satellite.

false , Aryabhata is a satellite.

II. Moon is star and Aryabhata is a satellite.

false , moon is a natural satellite

so,

Neither I nor II follows.

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Question 95

The recently approved, LIGO-India project, is related to

- A Research on use of solar energy
- B Research on laser technologies
- C Research on gravitational waves
- D Research on relocation of lions

Answer: C

Question 96

Statements followed by some conclusions are given below.

Statements:

1. Medical profession has become the most unethical.
2. People are afraid of falling sick

Conclusions:

- I. Medical is the only unethical profession.
- II. Unethical people fall sick.

Find which of the given conclusions logically follow from the given statements.

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

Answer: D

Explanation:

Statements:

1. Medical profession has become the most unethical.
2. People are afraid of falling sick

Conclusions:

- I. Medical is the only unethical profession.

false , It become most unethical profession

- II. Unethical people fall sick

false, every people are afraid of falling sick

so,

Neither I nor II follows.

Question 97

Name of the 8th UN Secretary General is

- A B. Ghali
- B Kofi A Annan
- C Ban Ki-moon
- D Dr. Jim Yong Kim

Answer: C

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Question 98

K walked at 3 kmph for a certain distance with L and thereafter at 6 kmph with M to cover a total distance of 27 km in 7 hours. Find the distance travelled with M.

- A 15 km
- B 12 km
- C 10 km

D 9 km

Answer: B

Explanation:

The distance travelled with M is **12 km**

K, L & M are three persons. First K walks with L and then with M.

Let the time taken by K when walking with L be x hr and time taken by K when walking with M be y hr

Then,

Total time taken by K = 7 hr...

$$\Rightarrow x + y = 7 \dots (1)$$

$$x + y = 7$$

Again,

Distance travelled by K with L = $3x$ (\because Distance = *Speed* \times *Time*)

Similarly, distance travelled by K with M = $6y$

Total distance travelled by K = 27 km

$$\Rightarrow 3x + 6y = 27$$

$$x + 2y = 9 \dots (2)$$

$$3x + 6y = 27$$

$$x + 2y = 9$$

Subtracting eq (1) from eq (2)

We get, $y = 2$

Thus, the distance travelled by K with M = $2 \times 6 = 12$ km

Question 99

Who is considered to be the 'father of modern genetics'?

A Charles Darwin

B Gregor Mendel

C Alexander Fleming

D Otto Hahn

Answer: B

Question 100

Name the country whose currency is not called 'Rupee'.

A Nepal

B Pakistan

C Sri Lanka

D Myanmar

Answer: D

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