



RRB NTPC 5 April 2016 - Shift 3

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RRB NTPC 5 April 2016 - Shift 3

Instructions

For the following questions answer them individually

Question 1

Contemporary : Historic :: Ancient

- A Past
- B Classic
- C Modern
- D Future

Answer: C

Explanation:

Contemporary : Historic :: Ancient

they are opposite to each other

Contemporary opposite Historic

Ancient opposite Modern

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Question 2

Project Loon is a search engine project by for providing internet access to rural and remote areas using high-altitude helium-filled balloons.

- A Google
- B Microsoft
- C Apple
- D Yahoo

Answer: A

Question 3

The communication satellite launched by India in November 2015 is

- A GSAT-6
- B GSAT-15
- C GSAT-16
- D IRNSS-1E

Answer: B

Question 4

The HCF of two numbers is 4 and the two other factors of LCM are 5 and 7. Find the smaller of the two numbers.

- A 10

- B 14
- C 20
- D 28

Answer: C

Explanation:

Given that the H.C.F. of two numbers is 4 and the other two factors of the L.C.M are 5 and 7.

We are to find the smaller of the two numbers.

Let a and b be the two numbers where $a < b$.

Since the L.C.M. has three factors 4, 5 and 7 and H.C.F. of a and b is 4.

So, 4 is a factor of both the numbers a and b.

Also, 5 is a factor of one number and 7 is a factor of the other number.

The two numbers will be 5×4 and 7×4 .

Thus, the two numbers are 20 and 28., and so the smaller number is 20.

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Question 5

Capital of Nagaland is

- A Dimapur
- B Kohima
- C Mokokchung
- D Tezpur

Answer: B

Question 6

E and F can do a work in 10 days. If E alone can do it in 30 days, F alone can do it in days.

- A 15
- B 20
- C 25
- D 18

Answer: A

Explanation:

E and F can do a work = 10 days

E alone can do it = 30 days

total work = lcm (10,30) = 30

(E+ F)'s efficiency = $\frac{\text{work}}{\text{time}} = \frac{30}{10} = 3$

E' s efficiency = $\frac{\text{work}}{\text{time}} = \frac{30}{30} = 1$

so

F's efficiency = $3 - 1 = 2$

so, F time taken = $\frac{\text{work}}{\text{time}} = \frac{30}{2} = 15$ days

Question 7

Who was the founder of Swaraj Party?

- A C. Rajagopalachari
- B Motilal Nehru
- C Lala. Lajpat Rai
- D Mahatma Gandhi

Answer: B

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Question 8

$2 \cos(\theta - \frac{\pi}{2}) + 3 \sin(\theta + \frac{\pi}{2}) - (3 \sin \theta + 2 \cos \theta) = ?$

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

Answer: A

Explanation:

$$2 \cos(\theta - \frac{\pi}{2}) + 3 \sin(\theta + \frac{\pi}{2}) - (3 \sin \theta + 2 \cos \theta) =$$

$$2 \cos(\theta - \frac{\pi}{2}) + 3 \sin(\theta + \frac{\pi}{2}) - (3 \sin \theta + 2 \cos \theta) =$$

$$\cos(\theta - \frac{\pi}{2}) = \sin(\theta)$$

$$\sin(\theta + \frac{\pi}{2}) = \cos(\theta)$$

$$2 \sin(\theta) + 3 \cos(\theta) - (3 \sin \theta + 2 \cos \theta) =$$

$$\cos \theta - \sin \theta$$

Question 9

Banaras Hindu University which completed 100 years in February 2016 was founded by

- A Gulzari Lal Nanda
- B Madan Mohan Malaviya
- C Jay Prakash Narayan
- D Sarvepalli Radhakrishnan

Answer: B

Question 10

Which one is not a good conductor of electricity?

- A Porcelain
- B Aluminum
- C Tungsten
- D Nickel

Answer: A

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Question 11

A statement followed by some conclusions are given below.

Statement: Based on his performance, Rajesh got a poor rating in his office.

Conclusions:

- I. Rajesh did not perform well.
- II. The rating given to Rajesh was not up to the mark.

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: C

Explanation:

Statement: Based on his performance, Rajesh got a poor rating in his office.

Conclusions:

- I. Rajesh did not perform well.

That's why he got poor rating

- II. The rating given to Rajesh was not up to the mark

Both the conclusion follows the statement

Question 12

S can finish 50% of a work in a day. T can do 25% of the work in a day. Both of them together will finish the work in days.

- A 2.66
- B 2.33
- C 1.33
- D 1.67

Answer: C

Explanation:

"S can finish 50% of a work in a day" means S can complete work in $\frac{1}{2}$ a day

"T can do 25% of the work in a day" means T can complete work in $\frac{1}{4}$ a day

both S and T can Complete the work in $= \frac{1}{2} + \frac{1}{4} = \frac{3}{4}$ a day

So they can complete the whole work in = $\frac{4}{3}$ days

Question 13

ICT is the common abbreviation of

- A International Communication Technology
- B Intelligent Communication Technology
- C Inter-state Communication Technology
- D Information and Communication Technology

Answer: D

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Question 14

Find the fourth proportional to 3.6, 6.9 and 11.4.

- A 20.3
- B 18.9
- C 19.6
- D 21.9

Answer: D

Explanation:

product of means = product of extremes

$$6.9 \times 11.4 = 3.6 \times ?$$

$$? = \frac{21.85}{1} = 21.9$$

Question 15

82, 70, 76, 64, 70, 58, ?

- A 52
- B 76
- C 64
- D 48

Answer: C

Explanation:

82, 70, 76, 64, 70, 58, ?

There are two alternate series in this

82, 76, , 70, , ?

70, 64, 58

so,

82, 76, , 70, , ?

here are the gap is 6

so next number will be 64

Instructions

Consider the following information and answer the questions based on it.

In a group of 75 students, 12 like only cabbage, 15 like only cauliflower, 21 like only carrot, 12 like both carrot and cabbage, 13 like only capsicum and 2 like both capsicum and cauliflower.

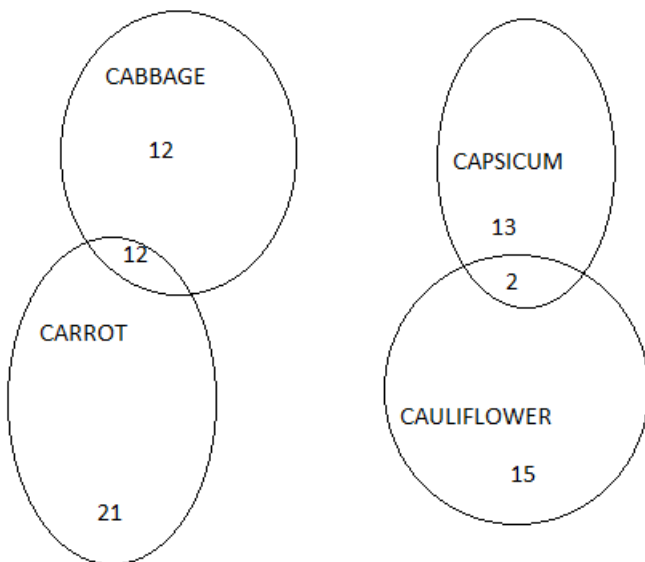
Question 16

The difference between the people who like carrot and cauliflower is

- A 6
- B 18
- C 16
- D 4

Answer: C

Explanation:



TOTAL = 75 Students

The difference between the people who like carrot and cauliflower is

$$\text{carrot} = 21 + 12 = 33$$

$$\text{cauliflower} = 15 + 2 = 17$$

$$\text{difference} = 33 - 17 = 16$$

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Question 17

What is the percentage of students that do not like cabbage?

- A 16

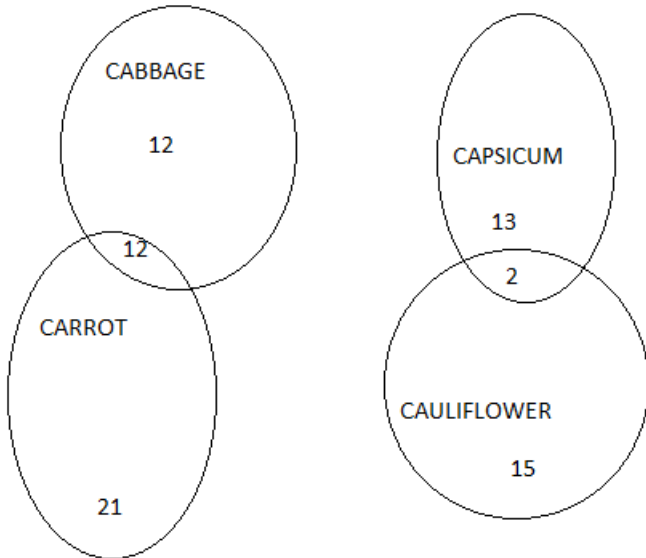
B 32

C 24

D 68

Answer: D

Explanation:



TOTAL = 75 Students

total students = 75

students who like cabbage = 12(only like cabbage)+ 12(both cabbage and carrot)

so,

students who dont like cabbage = $75 - 24 = 51$

the percentage of students that do not like cabbage = $\frac{51}{75} \times 100 = 68$

Question 18

How many students like only one vegetable?

A 60

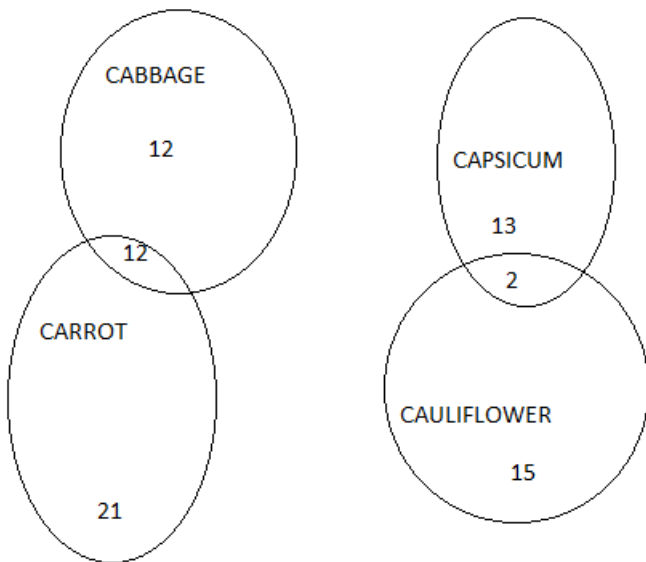
B 61

C 65

D 71

Answer: B

Explanation:



TOTAL = 75 Students

students like only one vegetable = (cabbage)12 +(capsicum)13 +(carrot)21 + 15(cauliflower)
= 61 students

Instructions

For the following questions answer them individually

Question 19

Who was the first cricketer to score 4 successive centuries in World Cup Cricket?

- A Kumar Sangakkara
- B AB de Villiers
- C Ross Taylor
- D Saeed Anwar

Answer: A

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Question 20

Car X and Y start at the same time at speeds of 12 kmph and 16 kmph. Find the distance between them after 3 minutes.

- A 200 m
- B 150 m
- C 180 m
- D 120 m

Answer: A

Explanation:

Let speed be s , time be t and distance be d

$$s \text{ of } X = 12 \text{ km/h} = \frac{12}{60} \times 1000 = 200 \frac{\text{m}}{\text{min}}$$

$$s \text{ of } Y = 16 \text{ km/h} = \frac{16}{60} \times 1000 = \frac{80}{3} \frac{\text{m}}{\text{min}}$$

$$\text{if } t = 3 \text{ min then } d \text{ of } X = 200 \times 3 = 600 \text{ m}$$

$$Y = \frac{800}{3} \times 3 = 800 \text{ m}$$

$$\text{distance between them} = Y - X = 800 \text{ m} - 600 \text{ m} = 200 \text{ m}$$

Question 21

Consolation : Grief :: Sedative :

- A Chloroform
- B Anesthesia
- C Pain
- D Burn

Answer: C

Explanation:

Consolation : Grief :: Sedative :

Consolation = the comfort received by a person after a loss or disappointment

Grief = intense sorrow

both is cause and a reason of it

Sedative = promoting calm or inducing sleep.

Pain = to get relief from pain

Question 22

If the length (L cm) and breadth (B cm) of a rectangle are increased by 25%, find the difference between the areas of the old and new rectangles.

- A $3LB/2$ sq.cm
- B $24LB/9$ sq.cm
- C $9LB/16$ sq.cm
- D $16LB/9$ sq.cm

Answer: C

Explanation:

Given

If the length (L cm) and breadth (B cm) of a rectangle are increased by 25%, find the difference between the areas of the old and new rectangles,

Let length = L cm and B be B cm

Now old area will be $L \times B$ sq cm

New area will be length = $\frac{5L}{4}$ cm and breadth = $\frac{5B}{4}$ cm

So new area will be $\frac{25LB}{16}$ sq cm

Therefore difference will be $\frac{25LB}{16} - LB = \frac{9LB}{16}$ sq cm

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Question 23

The technology developed to track enemy submarines in World War II was

- A RADAR
- B SONAR
- C Echolocation
- D LIDAR

Answer: B

Question 24

Read the given statements carefully and answer the question.

Statement:

A leading tennis star who faced media after failing a dope test said, "I don't want to end my career this way. I hope I will be given another chance to play this game. I let the sport down."

Which of the following is true according to the given statement?

- A He was challenging the outcome of the dope test.
- B He was confident that he was right and would continue to play.
- C He had admitted to testing positive in dope test.
- D The sport let him down.

Answer: C

Explanation:

He agreed to testing positive in dope test.

Question 25

A human adult's entire digestive tract from mouth to anus is about _____meters long.

- A 8
- B 7
- C 10
- D 9

Answer: D

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Question 26

Which one of the following is not alkaline?

- A Sodium
- B Potassium

C Lithium

D Sulphur

Answer: D

Question 27

The average ages of parents and two children are 30 years and 8 years respectively. The average age of the family is

A 16 years

B 19 years

C 18 years

D 17 years

Answer: B

Explanation:

The sum of ages of parents = 30

$$= 30 \times 2 = 60 \text{ (for mother father)}$$

Sum of age of two children = $8 \times 2 = 16$ years

$$\text{average} = \frac{\text{sum of four person}}{4}$$

$$= \frac{60+16}{4} = 19 \text{ years}$$

Question 28

A statement followed by some conclusions are given below.

Statement: After landing on the moon, Neil Armstrong said "One small step for a man, a giant leap for mankind."

Conclusions:

I. Neil Armstrong calls himself as mankind.

II. Neil Armstrong only echoed the feeling of achievement by mankind.

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: B

Explanation:

Statement: After landing on the moon, Neil Armstrong said "One small step for a man, a giant leap for mankind."

Conclusions:

I. Neil Armstrong calls himself as mankind.

no, He set the example for mankind

II. Neil Armstrong only echoed the feeling of achievement by mankind.

yes

so, only conclusion II is follows

Question 29

A student scored 470 marks in 6 subjects. The maximum marks for each subject was 100. What was his score in percentage terms?

- A 67.33 %
- B 69.45 %
- C 78.33 %
- D 78.67 %

Answer: C

Explanation:

A student scored 470 marks in 6 subjects

The maximum marks for each subject was 100.

so max. total marks = $100 \times 6 = 600$

his score in percentage = $\frac{470}{600} \times 100 = 78.33\%$

Question 30

An article was sold for Rs. 26,000 at a discount of 35%. Find the selling price if the discount was 15%.

- A Rs. 36,000
- B Rs. 40,000
- C Rs. 38,000
- D Rs. 34,000

Answer: D

Explanation:

Let marked price = X

Discount = 35% of X

= 0.35X

selling price = m.p - discount

= X - 0.35X

= 0.65 X

Given that S.P = Rs 26000

so,

26000 = 0.65X

X = RS40000

given 15% discount

so, 15% of 40000 = 6000

s.p = m.p - discount = 40000 - 6000 = Rs 34000

Question 31

If the mathematical operator ' \div ' means ' \times ', ' $+$ ' means ' $-$ ', ' \times ' means ' $+$ ' and ' $-$ ' means ' \div ', then $25 + 18 - 3 \times 7 + 3 = ?$

- A 25

- B 21
- C 19
- D 23

Answer: D

Explanation:

$$25 + 18 - 3 \times 7 + 3 = ?$$

$$= 25 - 18 \div 3 + 7 - 3 = ?$$

apply bodmass

$$= 25 - 18 \div 3 + 7 - 3$$

$$= 25 - 6 + 7 - 3$$

$$= 23$$

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Question 32

A man covers 1 km in 10 minutes. What is his speed in kmph?

- A 1.33
- B 0.1
- C 6
- D 5

Answer: C

Explanation:

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

$$\text{speed} = \frac{1\text{km}}{10\text{min}}$$

10 min change into hours

$$= \frac{10}{60}$$

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

$$\text{speed} = \frac{1}{6}$$

$$= 6 \text{ kmph}$$

Question 33

The Five Year Plan of the Government of India (2012-17) is -----

- A 10th
- B 11th
- C 12th
- D 13th

Answer: C

Question 34

A man deposits Rs.500 at the beginning of each year for 2 years at 10% p.a. compound annually. Find the maturity value at the end of the 2nd year.

- A Rs. 1,050
- B Rs. 1,150
- C Rs. 1,155
- D Rs. 1,200

Answer: C

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Question 35

Which ailment is not related to heart?

- A Aneurysm
- B Cardiomyopathy
- C Diphtheria
- D Myocardial rupture

Answer: C

Question 36

If 'god is great' = 'cp an bo', 'great help done' = 'er cp fs' and 'he is great' = 'bo cp dq', then what represents 'he is god'?

- A cp er bo
- B an bo cp
- C dq bo cp
- D an bo dq

Answer: D

Explanation:

'god is great' = 'cp an bo'.....(1)

'great help done' = 'er cp fs'.....(2)

'he is great' = 'bo cp dq'.....(3)

great is common in all three = cp

'is' is common in all three = bo

so , god = an

so, he = dq

therefore

'he is god' = 'dq bo an'

Question 37

Euro' is the currency of

- A UK
- B Sweden
- C Euro zone
- D Denmark

Answer: C

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Question 38

If the arithmetic mean of 10 numbers is 35 and each number is increased by 2, find the mean of the new set of numbers.

- A 28
- B 34
- C 40
- D 37

Answer: D

Explanation:

It is the property of arithmetic mean

If we increase variable by same no. that is any constant k then the mean will also be increase by k

For eg.

X $x+2$

1 3

2 4

3 5

4 6

5 7

15 25

Mean = $15 \div 5=3$

Mean for $x+2= 25 \div 5=5$

so in this question

Mean =35

Increased no. =2

Then increased mean = 37

Question 39

Gunpowder mainly contains

- A Calcium sulphate

- B Potassium nitrate
- C Lead sulfide
- D Zinc sulfide

Answer: B

Question 40

Replace # sign with the mathematical operators '+', '÷' and '-' and '=' to get a balanced equation out of (27 # 15 # 2) # 10 # 4. Choose the right sequence from below.

- A + ÷ = -
- B - + = ÷
- C + - ÷ =
- D + = ÷ -

Answer: C

Explanation:

(27 # 15 # 2) # 10 # 4

+ - ÷ =

$$(27 + 15 - 2) \div 10 = 4$$

apply bodmass before that solve the bracket

$$(40) \div 10 = 4$$

$$4 = 4$$

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Question 41

The most significant feature of Indus Valley civilization was

- A Barter system
- B Local transport system
- C Buildings made of brick
- D Administrative system

Answer: C

Question 42

If ARC is written as \$@* and HIT is #&% then CHAIR is

- A #*&\$@
- B #*\$&%
- C *#&\$@
- D *#&%

Answer: C

Explanation:

ARC is written as \$@*

HIT is #&%

CHAIR = ARC + HI

= \$@* + #&

*#\$&@

Question 43

If 'health care is wealth' is written as 1372, 'health needs care' is 417, 'he needs wealth' is 463, then 'he is wealth' is

A 326

B 764

C 624

D 246

Answer: A

Explanation:

'health care is wealth' is written as 1372 ...(1)

'health needs care' is 417,(2)

'he needs wealth' is 463,....(3)

health care is common in (1) and (2) =17

needs is common in (3) and (2) = 4

wealth is common in (3) and (1) = 3

so

is = 2

so he = 6

so,

he is wealth' = 326

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Question 44

The difference between the length and breadth of a rectangle is 6 m. If its perimeter is 64 m, then its area is:

A 256 sq.m

B 247 sq.m

C 264 sq.m

D 238 sq.m

Answer: B

Explanation:

Perimeter = $2 \times (L + B)$

64 = $2 \times (L + B)$

$$L + B = 38 \text{ m} \dots(1)$$

given

$$L - B = 6 \text{ m} \dots(2)$$

solving both

$$L = 19 \text{ m}$$

$$B = 13 \text{ m}$$

$$\text{Area} = L \times B$$

$$= 247 \text{ sq.m}$$

Question 45

The price of 12 kg of sugar is equal to that of 6 kg of rice. The price of 10 kg of sugar and 8 kg of rice Rs. 1040. Find the price 1 kg of sugar.

A Rs. 80

B Rs. 70

C Rs. 60

D Rs. 40

Answer: D

Explanation:

Let the cost of $\frac{\text{sugar}}{\text{kg}}$ is Rsx

Rice. is Rs y

Cost of 12Kg sugar = 12x

cost. 6kg Rice = 6y

$$12x = 6y$$

$$y = \frac{12x}{6} = 2x. \text{ (i)}$$

Cost of 10kgsugar = 10x

cost of 8kg sugar = 8y

$$10x + 8y = 1040$$

$$5x + 4y = 520 \dots(2)$$

$$5x + 8x = 520$$

$$13x = 520$$

$$x = 40$$

Cost of 1Kg of sugar = Rs 40

Question 46

CBDA, GFHE, 1CJLI, ?

A NOPM

B MNOP

C PMNO

D ONPM

Answer: D

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Question 47

A man who had no brother or sister, pointed out to a photo and said "this boy is my father's son". Who was on the photo?

- A The man's son
- B The man's father
- C Himself
- D The man's grandfather

Answer: C

Explanation:

this boy is my father's son"

means

"this boy is (A man) father's son"

so ,

a man father son is a man himself

Question 48

The HCF of two numbers is 6 and their LCM is 108. If one of the numbers is 12, then the other is

- A 27
- B 54
- C 48
- D 36

Answer: B

Explanation:

let the other number be x

As we know that

$lcm \times hcf = \text{product of two numbers}$

$$108 \times 6 = 12 \times x$$

$$x = 54$$

Question 49

$$9876 - ? + 5431 = 5553$$

- A 9754
- B 9765
- C 8754
- D 9854

Answer: A

Explanation:

$$9876 - ? + 5431 = 5553$$

$$9876 + 5431 - 5553 = ?$$

$$? = 9754$$

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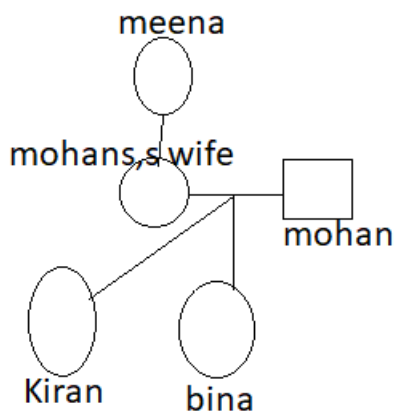
Question 50

Bina is the daughter of Mohan who is the only son-in-law of Meena. Meena has only one child. Kiran is the granddaughter of Meena. How is Kiran related to Bina?

- A Sister
- B Daughter
- C Maternal aunt
- D Mother

Answer: A

Explanation:



○ female

□ male

kiran is sister of Bina

Question 51

NGT stands for

- A National Geographic Television
- B National Green Transport
- C National Green Trust
- D National Green Tribunal

Answer: D

Question 52

If 'code' = 6241, 'made' = 5346, 'come' = 3124 and 'to' = 27 then 'dome' =?

- A 6134
- B 5214
- C 6124
- D 2634

Answer: D

Explanation:

'code' = 6241,....(1)

'made' = 5346,....(2)

'come' = 3124'(3)

'to' = 27...(4)

so O is common in (1) , (3)and (4)

= 2

C is common in (1) , (3)= 1

M is common (2) and (3) = 3

D is common (1) nd (2) =6

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

so,

dome = 6234

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Question 53

In 2012 Olympics, the maximum gold medals were won by

- A China
- B Great Britain
- C U. S. A.
- D Russia

Answer: C

Question 54

India came directly under the rule of the British Crown in the year

- A 1857
- B 1858
- C 1859
- D 1856

Answer: B

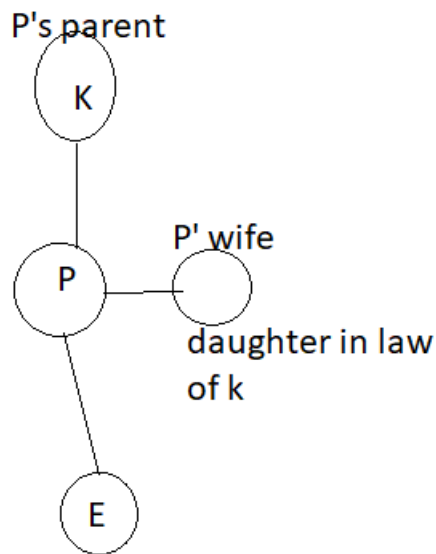
Question 55

E is the daughter of P who is the husband of the only daughter-in-law of K? How is E related to K?

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

Answer: B

Explanation:



E is a granddaughter to K

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Question 56

A trader bought a bag of 40 kg of basmati rice at Rs. 125 per kg and another bag of 60 kg at Rs. 150 per kg. He sold the entire stock at a profit of 20%. Find the selling price per kg.

- A Rs. 152
- B Rs. 158
- C Rs. 168
- D Rs. 172

Answer: C

Explanation:

Cost of basmati rice=

$$40 \times 125 = 5000$$

The cost of basmati rice is 5000.

$$\text{Cost of another bag} = 60 \times 150 \\ = 9000.$$

The cost of another bag is 9000.

$$\text{Total cost price} = 5000 + 9000 \\ = 14000.$$

Profit = 20%

$$\text{Hence SP} = 1.2 \times 14000 = 16800$$

The selling price is 16800.

Total weight = 100kg

The selling price per kg is Rs.168

Question 57

The mean of 25 values was 40. But one value was written as 25 instead of 50. The corrected mean is

- A 39
- B 41
- C 40
- D 42

Answer: B

Explanation:

The mean of 25 observations = 40

$$\text{The sum of 25 observations} = 40 \times 25 \\ = 1000$$

If the observation 50 was wrongly copied as 25 then

$$\text{correct observation} = 50 - 25 \\ = 25$$

$$\text{Sum of correct observations} = 1000 + 25 \\ = 1025$$

$$\text{Correct mean} = \frac{1025}{25} \\ = 41$$

Therefore ,

$$\text{Correct mean} = 41$$

Question 58

What number should be deducted from 1265 to make it divisible by 29 exactly?

- A 15
- B 16
- C 18

D 17

Answer: C

Explanation:

Add three times the last digit to the remaining leading truncated number. If the result is divisible by 29, then so was the first number. Apply this rule over and over again as necessary.

$$1265 \dots 126 + (5 + 5 + 5) = 141$$

$$141 \dots 14 + (1 + 1 + 1) = 17 (\text{herewenotget}29)$$

so we deduct 18 and try

$$1265 - 18 = 1247 \dots 124 + (7 + 7 + 7) = 145$$

$$145 \dots 14 + (5 + 5 + 5) = 29$$

so, 18 is the number

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Question 59

Headquarters of NASA is at

- A New York
- B Washington
- C Boston
- D Texas

Answer: B

Question 60

Find a pair similar to 'Arrow : Bow' from the following.

- A Football : Hand
- B Salad : Knife
- C Bullet : Rifle
- D Smoke : Water

Answer: C

Explanation:

Arrow : Bow

Arrow is inside the Bow

same with Bullet : Rifle

Bullet is inside the Rifle

Question 61

Read the given statements carefully and answer the question. Knowledge and wisdom go hand in hand. The deeper the knowledge, the greater is the wisdom. Knowledge is awareness. Wisdom is required to tackle complications. Which of the following is true according to the given statement?

- A Knowledge and wisdom are synonymous.

- B Knowledge and wisdom are entirely different.
- C Knowledge and wisdom are complementary to each other.
- D Wisdom can supplant knowledge.

Answer: C

Explanation:

Knowledge and wisdom are complementary to each other.

that is it emphasize the qualities of each other or another.

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Question 62

India covers of earth's land area. (approximate)

- A 2.8%
- B 2.4%
- C 2.0%
- D 3.2%

Answer: B

Question 63

If $a + 2b = 55$ and $a - 2b = -13$, find the value of b.

- A 21
- B 14
- C 17
- D 19

Answer: C

Explanation:

$$a + 2b = 55 \dots(1)$$

$$a - 2b = -13 \dots(2)$$

solving both the equations

$$a + 2b = 55$$

$$\Rightarrow a = 55 - 2b \dots(1)$$

put (1) in (2)

$$a - 2b = -13$$

$$(55 - 2b) - 2b = -13$$

$$b = 17$$

Question 64

An article was sold for Rs.3,600 at a discount of 10%. Find the selling price if the discount was 15%.

- A Rs. 3,600

B Rs. 4,000

C Rs. 3,800

D Rs. 3,400

Answer: D

Explanation:

Let marked price = X

Discount = 10% of X

$$= 0.1X$$

selling price = m.p - discount

$$= X - 0.1X$$

$$= 0.9 X$$

Given that S.P = Rs 3600

so,

$$3600 = 0.9X$$

$$X = \text{RS}4000$$

given 15% discount

so, 10% of 4000 = 600

$$\text{s.p} = \text{m.p} - \text{discount} = 4000 - 600 = 3400$$

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Question 65

Which one is considered as India's first supercomputer?

A Aditya

B Vikram-100

C Param 8000

D Shastra T

Answer: C

Question 66

Bangladesh has a land border with

A only India

B India and Myanmar

C India and Bhutan

D India and China

Answer: B

Question 67

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

- A DOGL
- B TSEVO
- C ENZROB
- D LVREIS

Answer: B

Explanation:

DOGL = GOLD

ENZROB = BRONZE

LVREIS = SILVER

all are metals except TSEVO

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Question 68

Select the alternative that has a different relationship as the given pair-
Inside : Outside

- A Day : Night
- B Sun : Star
- C Light : Dark
- D White : Black

Answer: B

Explanation:

All are the opposite except

Sun : Star

Question 69

INSAT-3D the meteorological Satellite with advanced weather monitoring payloads was launched in

- A 2012
- B 2013
- C 2014
- D 2015

Answer: B

Question 70

Verification of log-in name and password is for

- A Authenticating the user.
- B Re-confirming the user.
- C Providing formal access to the user.

D Completing the formality of login-in

Answer: A

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Question 71

Find the odd statement out in relation to a triangle.

- A The longest side is opposite to the greatest angle.
- B Exterior angle of a triangle = the sum of interior opposite angles.
- C The sum of any 2 sides is greater than the 3rd side.
- D The square of one side = the sum of the squares of other two sides

Answer: D

Explanation:

the odd statement out in relation to a triangle is

The square of one side = the sum of the squares of other two sides

actual statement is The square of longer side = the sum of the squares of other two sides

Question 72

99 x 99 =?

- A 9791
- B 9801
- C 9881
- D 9901

Answer: B

Explanation:

$$99 \times 99 = (100 - 1)(100 - 1) = (100 - 1)^2 = 100^2 + 1^2 - 2 \times 100 \times 1$$

$$= 10000 + 1 - 200$$

$$= 9800 + 1$$

$$= 9801$$

Question 73

If $\cot 52^\circ = b$, $\tan 38^\circ = ?$

- A \sqrt{b}
- B $\sqrt{b/2}$
- C $-b$
- D b

Answer: D

Explanation:

One general formula is :

$$\cot(90^\circ - \theta) = \tan \theta$$

Using this,

$$\cot 52^\circ = b$$

$$\cot(90^\circ - 38^\circ) = b$$

According to formula, $\cot(90^\circ - 38^\circ) = \tan 38^\circ$

So, $\tan 38^\circ = b$

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Question 74

Infra-red rays are

- A Longitudinal waves
- B Transverse waves
- C Mechanical waves
- D Electromagnetic waves

Answer: D

Question 75

Statements followed by some conclusions are given below:

Statement:

1. God has distributed time equally to mankind but not money.
2. But God has compensated by giving commonsense.

Conclusions:

- I. God has not done justice to mankind in distributing money.
- II. One has to use commonsense to manage money wisely.

Find which of the given conclusions logically follows 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: B

Explanation:

Statement:

1. God has distributed time equally to mankind but not money.
2. But God has compensated by giving commonsense.

One has to use commonsense to manage money wisely.

so conclusion II is correct

Question 76

A compiler is a

- A Hardware

- B Software
- C Neither Hardware nor Software
- D Card

Answer: B

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Question 77

Tashkent Declaration followed Indo-Pak war of

- A 1947
- B 1965
- C 1971
- D 1999

Answer: B

Question 78

The sum of the ages of 4 children born at the intervals of 4 years is 48. Find the age of the youngest child.

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

Answer: C

Explanation:

Let the age of the smallest child be x

therefore, the age of the other children will be

$x, x+4, x+8, x+12$ (given that each child is born at the interval of 4 years)

but the sum of all the years of children of equal to 48

$$\Rightarrow x + (x+4) + (x+8) + (x+12) = 48$$

$$= x+x+4+x+8+x+12 = 48$$

$$= 4x + 24 = 48$$

$$= 4x = 24$$

$$= x = 6 = \text{age of the smallest child}$$

Question 79

The product of two numbers is 24 and the sum of their squares is 52. Find their sum.

- A 5
- B 10
- C 15

D 20

Answer: B

Explanation:

Let no. Be x and y

$$xy = 24$$

$$x^2 + y^2 = 52$$

$$\text{now } (x + y)^2 = x^2 + y^2 + 2 \times x \times y$$

$$\text{so } (x + y)^2 = 52 + 2(24)$$

$$\text{so } x+y = 10$$

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Question 80

The ratio of two numbers is 3:1 and their sum is 72. Find the difference between the numbers.

A 24

B 36

C 32

D 28

Answer: B

Explanation:

Let the no. Be 3x and x

given

$$3x + x = 72$$

$$x = 18$$

$$\text{so no.} = 18, 54$$

$$\text{Difference} = 36$$

Instructions

Consider the following information and answer questions based on it.

P, Q, R, S are four friends who pursue teaching, law, banking, cooking and own red, blue, white and yellow house, in a random order. An individual owns only one house and pursues only one profession.

1. P owns a red house and is not a banker.
2. The owner of blue house is a lawyer.
3. The colour of S's house is neither yellow nor white.
4. R is a teacher.

Question 81

The owner of the blue house is

A S

B R

C Q

D Cannot be determined

Answer: A

Explanation:

step I : GIVEN

P	Red house	
S	blue	lawyer
R	yellow/white	teacher
	white/yellow	

Step II

P	Red	cook
S	blue	lawyer
R	yellow/white	teacher
Q	white/ yellow	banker

Owner of blue house is S

Question 82

Q is a

- A Lawyer
- B Banker
- C Cook
- D Teacher

Answer: B

Explanation:

step I : GIVEN

P	Red house	
S	blue	lawyer
R	yellow/white	teacher
	white/yellow	

Step II

P	Red	cook
S	blue	lawyer
R	yellow/white	teacher
Q	white/ yellow	banker

Q is banker

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Question 83

White house is owned by whom?

- A Q
- B R
- C S
- D Cannot be determined

Answer: D

Explanation:

P	Red house	
S	blue	lawyer
R	yellow/white	teacher
	white/yellow	

P	Red	cook
S	blue	lawyer
R	yellow/white	teacher
Q	white/ yellow	banker

white house can be owned by R or Q

so, cant determined

Instructions

For the following questions answer them individually

Question 84

Which river does not flow into the Arabian Sea?

- A Narmada
- B Tapti
- C Periyar
- D Mahanadi

Answer: D

Question 85

Name the Chinese President who visited India in 2015.

- A Xi Jinping
- B Hu Jintao
- C Jiang Zemin
- D Li Xian Ning

Answer: A

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Instructions

The following table represents the marks of four students in five subjects.

	Physics	Chemistry	Maths	History	Geography
Shyam	45	50	49	51	65
Sunil	60	55	60	59	61
Jagdish	35	41	39	30	45
Rajesh	50	55	51	57	62

Consider the information and answer questions based on it.

Question 86

The difference between the total marks scored by Sunil and Jagdish is

- A 190
- B 125
- C 105
- D 115

Answer: C

Explanation:

$$\text{Sunil} = 60+55+60+59+61 = 295$$

$$\text{Jagdish} = 35+41+39 +30+45 = 190$$

$$\text{Difference} = 105$$

Question 87

Who has the highest marks in History and Geography put together?

- A Shyam
- B Sunil
- C Jagdish
- D Rajesh

Answer: B

Explanation:

$$\text{Shyam} = 51+65 = 116$$

$$\text{Sunil} = 59+61 = 120$$

$$\text{Jagdish} = 30+45 = 75$$

$$\text{Rajesh} = 57+62 = 119$$

Sunil has the highest marks in History and Geography put together.

Question 88

Who has the highest average marks?

- A Shyam
- B Sunil
- C Jagdish

D Rajesh

Answer: B

Explanation:

$$\text{Shyam} = \frac{45+50+49+51+65}{5} = 51$$

$$\text{Sunil} = \frac{60+55+60+59+61}{5} = 59$$

$$\text{Jagdish} = \frac{35+41+39+30+45}{5} = 38$$

$$\text{Rajesh} = \frac{50+55+51+57+62}{5} = 55$$

Sunil has the highest average marks

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Instructions

For the following questions answer them individually

Question 89

'Khajuraho' group of monuments can be found in

- A Maharashtra
- B Bihar
- C Madhya Pradesh
- D Gujarat

Answer: C

Question 90

Stainless steel is

- A A compound.
- B A mixture.
- C An element.
- D An alloy.

Answer: D

Question 91

Human respiration releases

- A Mixture of gases
- B Carbon monoxide
- C Oxygen
- D Carbon dioxide

Answer: D

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Question 92

Statue of Liberty is situated in

- A Paris
- B Washington
- C Geneva
- D New York

Answer: D

Question 93

The historic Conference of Parties (COP 21) 2015, on climate change was held in

- A Geneva
- B Davos
- C Paris
- D Bonn

Answer: C

Question 94

Usually, colour blindness is

- A A genetic disposition.
- B A non-genetic condition.
- C A lifestyle disease.
- D Caused by exposure to light.

Answer: A

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Question 95

What will happen to a person's weight when he is in a moving elevator?

- A Increase
- B Decrease
- C Weight will not change
- D May increase or decrease

Answer: C

Question 96

Rajya Sabha is also known as

- A Legislative Council
- B Senior House
- C Upper House
- D Lower House

Answer: C

Question 97

Which one does not belong to the group?

- A Panda Global
- B Rabbit
- C Avast
- D Kaspersky

Answer: B

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Question 98

Which country won the U-19 World cup Cricket 2016?

- A India
- B Sri Lanka
- C West Indies
- D Bangladesh

Answer: C

Question 99

Find the mean of the values: 1, 9, 7, 3, 5, 5, 6, 4, 2, 8

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

Answer: C

Explanation:

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

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

= 5

Question 100

At what percentage simple interest per annum a certain sum will double in 10 years?

- A 7%
- B 8%
- C 9%
- D 10%

Answer: D

Explanation:

Let the percentage of rate per annum = r

Initial amount = P

Final amount = 2P

We know, $A = P + S.I$ and $S.I = (P \times r \times T) \div 100$, here T is time .

e.g., $2P = P + Prt \div 100$

Given, T = 10 yrs

$$\therefore 2P = P + \frac{Pr10}{100}$$

$$P = \frac{Pr}{100}$$

$$r = 10\%$$

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