



RRB NTPC 30 March 2016 - Shift 3

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RRB NTPC 30 March 2016 - Shift 3

Instructions

For the following questions answer them individually

Question 1

Find the factors of $(x^2 - x - 132)$

- A $(x - 11)(x - 12)$
- B $(x + 12)(x - 11)$
- C $(x + 11)(x + 12)$
- D $(x - 12)(x + 11)$

Answer: D

Explanation:

$$(x^2 - x - 132)$$

$$x^2 - 12x + 11x - 132 = 0$$

$$x(x - 12) + 11(x - 12) = 0$$

$$(x - 12)(x + 11) = 0$$

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Question 2

A college council is auditioning students for a cultural festival. They must satisfy the following criteria -

1. Student must know at least one dance form.
2. Student must know to play at least one musical instrument.
3. Student must have good acting skills.

Which one of the following will the council definitely select?

- A Z is a Bharat Natyam dancer, a violinist but does not have any acting skills.
- B P plays football, guitar, has acted in road shows and is a classical dancer.
- C J is a contemporary dancer, a great actor and is planning to learn flute.
- D A plays sitar, is a hip-hop dancer and does not have any acting skills.

Answer: B

Explanation:

The council will select P because he is satisfying all the criteria.

Question 3

If RESEARCH is \$#!%\$&@ then SCARE is

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

Answer: A

Explanation:

R = \$, E = #, S = ! and so on

Then in the same way SCARE = !&%\$# .

Instructions

Consider the following information and answer questions based on it.

The likes and professions of five friends Rosy, Mary, Lily, Andy and Daisy are given.

1. Rosy likes Yellow and is a Student.
2. The Librarian likes Green.
3. Mary and Andy like Purple and Blue respectively and neither of them is a Teacher.
4. Lily likes Brown and the Inspector likes Blue.
5. One of the five is a Principal.

Question 4

Which colour does the Teacher like?

- A Blue
- B Brown
- C Purple
- D Green

Answer: B

Explanation:



Rosy	Daisy	Mary	Andy	Lily
Yellow	Green	Purple	Blue	Brown
Student	Librarian	Principal	Inspector	Teacher

Teacher likes brown colour.

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Question 5

Who is the Principal?

- A Daisy
- B Andy
- C Mary
- D Lily

Answer: C

Explanation:

Rosy	Daisy	Mary	Andy	Lily
Yellow	Green	Purple	Blue	Brown
Student	Librarian	Principal	Inspector	Teacher

Mary is the Principal.

Question 6

Which among the following is the wrong pair?

- A Andy – Inspector
- B Purple – Principal
- C Daisy – Green
- D Rosy – Teacher

Answer: D

Explanation:

Rosy	Daisy	Mary	Andy	Lily
Yellow	Green	Purple	Blue	Brown
Student	Librarian	Principal	Inspector	Teacher

Rosy – Teacher is wrong pair.

Instructions

For the following questions answer them individually

Question 7

$$1.123 + 11.23 + 112.3 = ?$$

- A 123.453
- B 132.343
- C 124.653
- D 134.643

Answer: C

Explanation:

$$1.123 + 11.23 + 112.3$$

$$12.353 + 112.3$$

$$124.653.$$

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Question 8

The standard deviation of the set {10, 10, 10, 10, 10} is

- A 0
- B 1
- C 5
- D 10

Answer: A

Explanation:

x	y	(x-y) ²
10	10	(10 - 10) ² =0
10	10	(10 - 10) ² =0
10	10	(10 - 10) ² =0
10	10	(10 - 10) ² =0
10	10	(10 - 10) ² =0

$$\Sigma (x - y)^2 = 0$$

$$\text{Standard deviation} = \sqrt{\frac{\Sigma (x-y)^2}{N-1}} = \sqrt{\frac{0}{5-1}} = 0.$$

Question 9

Karan purchased one dozen pens for Rs. 120/- and sold a pack of 3 pens for Rs. 35/- each. What is his gain?

- A 16.67%
- B 20%
- C 15%
- D 33.33%

Answer: A

Explanation:

C.P of 12 pens = 120

S.P of 12 pens = 4 × 35 = 140

Profit = 140 - 120 = Rs 20.

Profit% = $\frac{20 \times 100}{120} = 16.67\%$.

Question 10

If Deplete : Exhaust then Replenish :

- A Exhale
- B Inhale
- C Reuse
- D Restore

Answer: D

Explanation:

Deplete and exhaust means reduction similarly replenish means restore.

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Question 11

What is the noise level of normal conversation?

- A About 60 dB
- B About 70 dB

C About 80 dB

D About 90 dB

Answer: A

Explanation:

Noise level of normal conversation is about 60 dB.

Question 12

Statements followed by some conclusions are given below.

Statements:

1. X is 7 meters tall, Y is half as high and Z is 3 times the height of X.

2. P is taller than Z but shorter than A and B.

Conclusions:

I. B is the tallest of all.

II. The average height of X, Y and Z is less than 10 meters.

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: D

Explanation:

$X = 7$ m, $Z = 21$, and Y is not clear from given statements

$A, B > P > Z$

We are not getting any conclusion

So, neither I nor II follows.

Question 13

G is twice as fast as S in doing work. If G can do a work in 30 days less than S, how many days will they take to complete the work together?

A 25

B 20

C 22

D 15

Answer: B

Explanation:

Ratio of efficiency of G and S = 2 : 1

Ratio of time taken by G and S = 1 : 2

diff = 1 unit and 1 unit = 30

Time taken by G = 30 days and time taken by S = 60 days

Together they can complete in = $\frac{1}{30} + \frac{1}{60} = \frac{90}{30 \times 60} = \frac{1}{20} = 20$ days.

Question 14

What is the ratio of simple interest earned on certain amount at the rate of 12% p. a. for 9 years and that for 12 years?

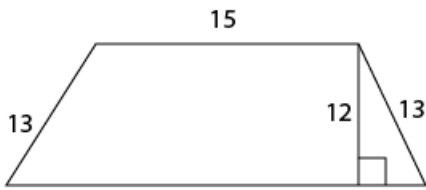
- A 1:2
- B 2:3
- C 3:4
- D 4:5

Answer: C

Explanation:

Required ratio = $9 : 12 = 3 : 4$, (rate and principal is same).

Question 15

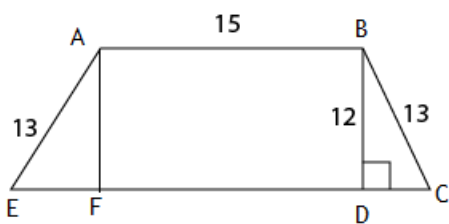


What is the area of this trapezoidal garden? (All measurements are in cm)

- A 60 sq. cm
- B 180 sq. cm
- C 210 sq. cm
- D 240 sq. cm

Answer: D

Explanation:



In triangle BDC,

$$DC^2 = 13^2 - 12^2 = 25$$

$$DC = 5$$

In triangle AEF,

$$AF = 12$$

$$EF^2 = 13^2 - 12^2 = 25$$

$$EF = 5$$

In Trapezium ABCE, $AB = 15$, $EC = 15 + 5 + 5 = 25$

$$\text{Area of trapezium} = \frac{1}{2} (\text{sum of parallel side}) \times \text{height}$$

$$\text{Area of garden} = \frac{1}{2} \times 40 \times 12 = 240 \text{ sq.cm.}$$

Question 16

Select the alternative that shows a similar relationship as the given pair
Mandatory : Compulsory

- A Philosophy : Idealism
- B Thesis : Proposition
- C Generosity : Narrow-mindedness
- D Hypothesis : Supposition

Answer: E

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Question 17

For how many months is a cheque valid from the date of issue?

- A 1 month
- B 2 months
- C 3 months
- D 6 months

Answer: C

Question 18

Ganga Action Plan' initiated by the Union Government aims at

- A Streamlining the flow of Ganga river.
- B Reduction of pollution on Ganga river.
- C Efficient use of Ganga water for irrigation.
- D Using Ganga river for generating hydel energy.

Answer: B

Question 19

Find the range and mode of the data 17, 18, 28, 19, 16, 18, 17, 29, 18

- A 12 and 18
- B 13 and 18
- C 12 and 17
- D 11 and 18

Answer: B

Explanation:

17, 18, 28, 19, 16, 18, 17, 29, 18

Arrange it in ascending order,

16, 17, 17, 18, 18, 18, 19, 28, 29

Mode = 18 because 18 occurs maximum time

Range = Difference of highest and lowest value = $29 - 16 = 13$.

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Question 20

The percentage of nitrogen in the air is about

- A 74%
- B 76%
- C 78%
- D 80%

Answer: C

Question 21

K purchased a table for Rs. 11,000 and sold it for Rs. 13,500. What is his gain in percentage?

- A 19.8%
- B 20.6%
- C 22.7%
- D 22%

Answer: C

Explanation:

C.P = 11000, S.P = 13500

Gain = $13500 - 11000 = 2500$

Gain% = $\frac{2500 \times 100}{11000} = 22.7\%$.

Question 22

Shimla Agreement 1972 between India & Pakistan was signed in

- A Barne's Court
- B Ellerslie Building
- C Viceregal Lodge
- D Gorton Castle

Answer: A

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Question 23

The value of $(\sin \theta + \cos \theta)^2 =$

- A $1 + \sin^2 \theta$
- B $\sin^2 \theta + \cos^2 \theta$
- C $1 + 2 \cos \theta \sin \theta$
- D $\cos^2 \theta + 1$

Answer: C

Explanation:

$$(\sin \theta + \cos \theta)^2$$

$$\sin^2 \theta + \cos^2 \theta + 2 \sin \theta \cos \theta$$

$$1 + 2 \sin \theta \cos \theta.$$

Question 24

The instrument used to regulate temperature to a particular degree is called

- A Thermostat
- B Thermometer
- C Pyrometer
- D Thermocouple

Answer: A

Question 25

Pressure is measured in terms of

- A Mass & Density
- B Work done
- C Force and Area
- D Force and Distance

Answer: C

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Question 26

How many times does the number 3 occur in unit's place for numbers ranging from 1 to 100?

- A 20
- B 11
- C 10
- D 19

Answer: C

Explanation:

The number having three at unit's place are 3, 13, 23, 33, 43, 53, 63, 73, 83, 93.

So, 10 number has digit at unit's place.

Question 27

Between small and large human intestine which one is longer.

- A Small intestine
- B Large intestine
- C Both are equal in length
- D Depends on male or female

Answer: A

Question 28

To conduct detailed study into disease causing organism in livestock, Biosafety Laboratory has been setup in India at

- A Ludhiana
- B Bengaluru
- C Anand
- D Allahabad

Answer: B

Explanation:

To conduct detailed study into disease causing organism in livestock, Biosafety Laboratory has been setup in Bengaluru by National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI), and it was dedicated to the nation by Union Agriculture Minister Radha Mohan Singh at Yelahanka.

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Question 29

A pole is taller than a Giraffe which is taller than a tree. A signal is shorter than a pole but taller than a building which is taller than a Giraffe. Who is the shortest?

- A Signal
- B Giraffe
- C Tree
- D Building

Answer: C

Explanation:

Pole > Giraffe > Tree

Pole > Signal > Building > Giraffe

Now, Pole > Signal > Building > Giraffe > Tree

Hence, tree is the shortest.

Question 30

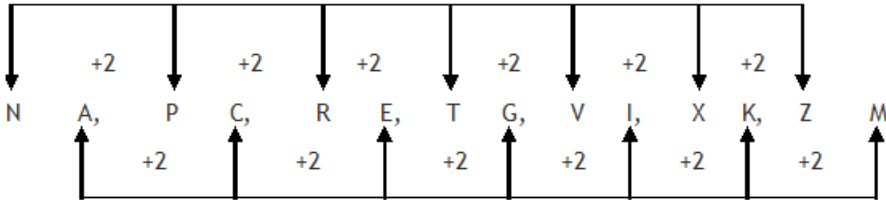
Find the missing (?) in the series NA, PC, RE, TG, ?, XK, ZM

- A IV
- B VI
- C VII
- D VJ

Answer: B



Explanation:



Question 31

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

- A DNHA
- B EDAH
- C THEA
- D IRHA

Answer: C

Explanation:

DNHA = HAND

EDAH = HEAD

THEA = HEAT

IRHA = HAIR

Except HEAT all are the name of parts of body.

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Question 32

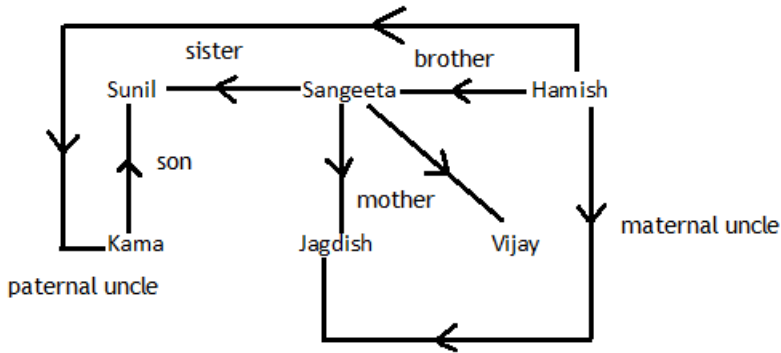
Sunil has a son Kama and a sister Sangeeta who is the mother of Jagdish and Vijay. Harnish is Jagdish's maternal uncle. How is Harnish related to Kama?

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

Answer: D

Explanation:





Question 33

International Maritime Organisation is concerned with

- A Air pollution.
- B Sea pollution.
- C Adulteration in food.
- D Deforestation

Answer: B

Explanation:

IMO is concerned with sea pollution.

Question 34

Find the G.C.F. & L.C.M. of 20 and 28.

- A 20,280
- B 5,280
- C 10,140
- D 4,140

Answer: D

Explanation:

Prime factorisation of 20, 28

$$20 = 2 \times 2 \times 5$$

$$28 = 2 \times 2 \times 7$$

$$\text{G.C.F} = 2 \times 2$$

$$\text{L.C.M} = 2 \times 2 \times 5 \times 7 = 140$$

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Question 35

Astrosat is India's first

- A Reconnaissance satellite
- B Remote sensing satellite

- C Space observatory
- D Communication satellite

Answer: C

Question 36

Ali travels a distance of 300 m in 2 minutes and 30 seconds. What is his speed in kmph?

- A 6.9
- B 7.1
- C 7.2
- D 7.3

Answer: C

Explanation:

$$\text{speed} = \frac{300}{150} \times \frac{18}{5} = 7.2 \text{ kmph.}$$

Question 37

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

- A Chalk : Slate
- B Pencil : Notebook
- C Pen : Ink
- D Sketch Pen : Drawing Book

Answer: C

Explanation:

From chalk we can write on slate

From Pencil we can write on notebook

From sketch pen we can draw on drawing book

But from pen we cannot write on ink so this is odd.

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Question 38

The Gandhi-Irwin pact was signed in the year

- A 1930
- B 1931
- C 1932
- D 1933

Answer: B

Question 39

Twice the difference between two numbers is equal to their sum. If one number is 15, find the other number.

- A 15
- B 10
- C 5
- D 20

Answer: C

Explanation:

Let the other number be x

According to the question,

$$2(15 - x) = x + 15$$

$$30 - 2x = x + 15$$

$$30 - 3x = 15$$

$$3x = 15$$

$$x = 5.$$

Question 40

The sum of three consecutive numbers is 126. Find the highest number.

- A 41
- B 42
- C 43
- D 44

Answer: C

Explanation:

Let the three consecutive numbers be x , $x+1$ and $x+2$

$$x + x+1 + x+2 = 126$$

$$3x + 3 = 126$$

$$3x = 123$$

$$x = 41$$

So, highest number = $41 + 2 = 43$.

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Question 41

surya is 25 years older than his son. In 5 years, he will be twice as old as his son. What will be Surya's age after 3 years?

- A 20
- B 23
- C 45
- D 48

Answer: D

Explanation:

Let the son's age be x years

Then surya's age will be $(x + 25)$ years

According to the question,

$$(x + 25) + 5 = 2(x + 5)$$

$$x + 30 = 2x + 10$$

$$x = 20$$

Surya's age after 3 years = $20 + 25 + 3 = 48$ years.

Question 42

The name of the first bank established in India was

- A Bank of Hindustan
- B Reserve Bank of India
- C Imperial Bank
- D State Bank of India

Answer: A

Question 43

If $M = 14$, $TANK = 62$, then $STARDOM =$

- A 79
- B 89
- C 99
- D 109

Answer: C

Explanation:

Count the alphabet from back

Then, $M = 14$,

$T = 7$, $A = 26$, $N = 13$, $K = 16$

Sum of word $TANK = 7 + 26 + 13 + 16 = 62$

Similarly,

$S = 8$

$T = 7$

$A = 26$

$R = 9$

$D = 23$

$O = 12$

$M = 14$

Sum of $STARDOM = 8 + 7 + 26 + 9 + 23 + 12 + 14 = 99$.

Question 44

What is the 4th proportional of 3, 8, 12, ?

- A 36
- B 26
- C 32
- D 16

Answer: C

Explanation:

Let the fourth proportion will be x

Then, $3 : 8 :: 12 : x$

$$3 \times x = 12 \times 8$$

$$x = 32$$

So, fourth proportion will be 32.

Question 45

Which of the following is a Space-Based Augmentation System?

- A INSAT
- B GAGAN
- C GSAT
- D SARAL

Answer: B

Question 46

An assertion (A) and a reason (R) are given below.

Assertion (A): Forest cover in the country has gradually decreased.

Reason (R): Encroachment by humans is one of the concerns for the forest department.

Choose the correct option.

- A Both A and R are true and R is the correct explanation of A
- B Both A and R are true, but R is not the correct explanation of A
- C A is true, but R is false
- D A is false, but R is true

Answer: A

Explanation:

Assertion (A) is correct because forest land are decreasing day by day.

Reason (R) is also correct because humans are taking land of forest by extending his structure or by building house on it.

Option A is correct.

Question 47

If the interior angle of a polygon is 108° , then it is a

- A Octagon
- B Hexagon
- C Pentagon
- D Tetragon

Answer: C

Explanation:

Interior angle = 108°

Then , exterior angle = $180 - 108 = 72^\circ$

Sum of exterior angle of polygon is 360°

Number of sides = $\frac{360}{72} = 5$

So, the polygon is pentagon.

Question 48

Rupee sign '₹' is a

- A Devanagari letter
- B Roman letter
- C Sanskrit Script.
- D A combination of Roman & Devanagari letters

Answer: D

Question 49

Which of the following does not belong to the group?

- A Lakshadweep
- B Puducherry
- C Nicobar
- D Andaman

Answer: B

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Question 50

The headquarters of ISRO is located at

- A Bengaluru
- B New Delhi

- C Pune
- D Mumbai

Answer: A

Question 51

Which of the following will appear third, if they are arranged according to a dictionary?

- A Autumn
- B Austere
- C Assert
- D Auspicious

Answer: B

Explanation:

Arrangement according to the dictionary = Assert, Auspicious, Austere, Autumn
Austere will appear on third.

Question 52

If $\sin \theta = 1/\sqrt{2}$ then $(\tan \theta + \cos \theta) =$

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

Answer: D

Explanation:

$$\sin \theta = 1/\sqrt{2}$$

$$\sin \theta = \frac{P}{H} = \frac{1}{\sqrt{2}}$$

$$B^2 = H^2 - P^2$$

$$B^2 = 2 - 1 = 1$$

$$B = 1$$

$$\tan = \frac{P}{B}, \cos = \frac{B}{H}$$

$$(\tan \theta + \cos \theta) = 1 + \frac{1}{\sqrt{2}} = \frac{\sqrt{2}+1}{\sqrt{2}}$$

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Question 53

The mean and median of 7, 5, 5, 2, 7, 6, 5, 3, 7, 6

- A 5.3 and 5
- B 5 and 6

C 5 and 5.5

D 5.3 and 5.5

Answer: D

Explanation:

$$\text{Mean} = \frac{7+5+5+2+7+6+5+3+7+6}{10} = 5.3$$

Median = 2, 3, 5, 5, 5, 6, 6, 7, 7, 7

Middle value after arranging in increasing order = 5.

Question 54

Find the similarity in the following:

Olive Oil, Coconut Oil, Cod liver Oil, Sunflower Oil

A All of them are vegetable oils.

B All of them are rich in Vitamin A.

C All of them are rich in Vitamin D.

D All of them are oils.

Answer: D

Explanation:

All of them are oils.

Question 55

Human nails are made of

A Pigment

B Elastin

C Albumin

D Keratin

Answer: D

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Question 56

Eastern boundary of Kashmir is

A LOC

B Jammu

C POK

D Ladakh region

Answer: D

Question 57

The medicine paracetamol is

- A An analgesic
- B An antipyretic
- C An analgesic and antipyretic
- D A nonsteroidal anti-inflammatory drug

Answer: C

Question 58

Sachin Tendulkar made his test debut in 1989 at

- A Karachi, Pakistan
- B Mumbai, India
- C Kolkata, India
- D Melbourne, Australia

Answer: A

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Question 59

Which key on a windows keyboard sets to full screen mode in most browsers?

- A F1
- B F10
- C F11
- D F12

Answer: C

Explanation:

F11 key used to set fullscreen.

Question 60

Name of the test for diagnosing HIV is?

- A Pap Smear
- B ELISA
- C DNA
- D Mantoux

Answer: B

Question 61

B has 32 pens, 24 pencils and 16 erasers. How many sets of these three items can B make without any left over?

- A 6
- B 7
- C 8
- D 9

Answer: C

Explanation:

For this type of question we have to find the H.C.F of 32, 24, 16 that is 8

Hence, B can make 8 sets of these three items without any left over.

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Question 62

Air Quality Index is

- A A measuring instrument of air pollution.
- B A number.
- C For measuring humidity level.
- D For forecasting rain.

Answer: B

Question 63

Who served as the first Deputy Prime Minister of independent India?

- A K. Kamaraj
- B Morarji Desai
- C Sardar Vallabhbhai Patel
- D C. Rajagopalachari

Answer: C

Question 64

Gopal covers 100 km. He travels at a speed of 60 kmph for the first 40 km and the rest of the distance at 60 kmph. What is his average speed in kmph?

- A 44.20
- B 45.20
- C 46.20
- D It will be the same

Answer: D

Explanation:

Time taken for first 40 km = $\frac{40}{60} = 0.66$ hr

Time taken for 60 km = $\frac{60}{60} = 1$ hr

Average speed = $\frac{\text{Total distance}}{\text{Total time}} = \frac{100}{1.66} = 60 \text{ kmph}$

And also there is no change in speed so average speed will be same 60 kmph.

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Question 65

Secularism means

- A Not practicing any religion.
- B Practicing multiple religions.
- C Freedom to join any satsang.
- D Freedom of religion and worship.

Answer: D

Question 66

A farmer purchased a piece of land for Rs. 18 lakh and spent Rs. 3 lakh for registration, fencing etc. He sold it for Rs. 24.57 lakh. Find his profit in percentage?

- A 15%
- B 14.15%
- C 16.5%
- D 17%

Answer: D

Explanation:

Total cost of land for farmer after registration and fencing = $18 + 3 = 21$ lakh

Selling price of land = 24.57 lakh

Profit = $24.57 - 21 = 3.57$ lakh

Profit % = $\frac{3.57 \times 100}{21} = 17\%$.

Question 67

National Science Day falls on

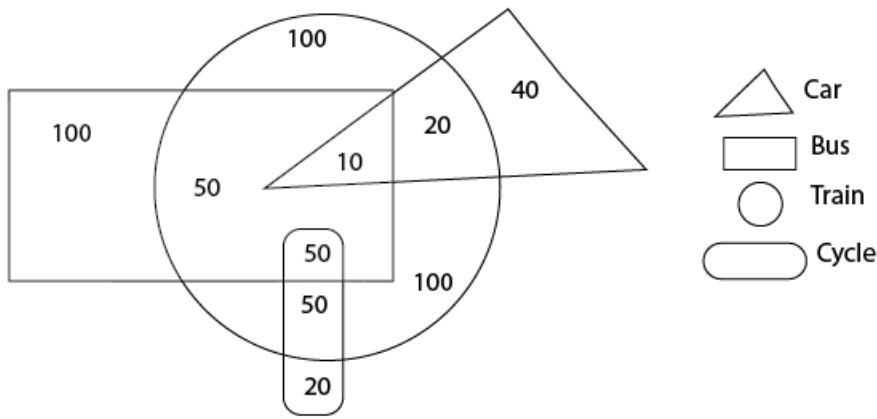
- A 26th February
- B 27th February
- C 28th February
- D 29th February

Answer: C

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Instructions

Study the following diagram and answer questions based on it.



Question 68

The ratio of total number of train travelers to the people who do not travel by train is

- A 27/16
- B 28/16
- C 37/16
- D 38/16

Answer: D

Explanation:

Total number of train travelers = $100 + 10 + 20 + 50 + 50 + 50 + 100 = 380$

Number of people who do not travel with train = $100 + 40 + 20 = 160$

Required ratio = $380 : 160 = 38 : 16$.

Question 69

How many people who travel by train also travel by car or bus but not cycle?

- A 50
- B 70
- C 80
- D 100

Answer: C

Explanation:

people who travel by train also travel by car = $20 + 10 = 30$

people who travel by train also travel by bus = $50 + 10 = 60$

people who travel by train also travel by car or bus but not by cycle = $30 + 60 - 10 = 80$ (10 is common in both).

Question 70

Which two modes of transport used by people are mutually exclusive?

- A Car – Bus
- B Car – Cycle

- C Bus – Cycle
- D Cannot be determined

Answer: B

Explanation:

From venn diagram we can see that cycle and car have nothing in common, hence they are mutually exclusive.

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Instructions

For the following questions answer them individually

Question 71

Find the missing (?) in the series

14, 28, 42, 56, ?, 84, 98

- A 68
- B 70
- C 72
- D 74

Answer: B

Explanation:

$$14 \times 2 = 28$$

$$14 \times 3 = 42$$

$$14 \times 4 = 56$$

$$14 \times 5 = 70$$

Question 72

After 9/11 tragedy, the rebuilt World Trade Center complex in New York is called

- A New World Trade Center
- B Empire State Building
- C One World Trade Center
- D World Trade Complex

Answer: C

Explanation:

After 9/11 tragedy, the rebuilt World Trade Center complex in New York is called one world trade centre.

Question 73

The famous Nek Chand's Rock Garden is located in

- A Srinagar
- B Jammu
- C Chandigarh

D Shimla

Answer: C

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Question 74

Expand: $(w - 9)^2$

A $(w^2 - 9w + 81)$

B $(w^2 - 9w + 18)$

C $(w^2 - 18w + 81)$

D $(w^2 - 18w - 81)$

Answer: C

Explanation:

$$(w - 9)^2$$

$$(a - b)^2 = a^2 + b^2 - 2ab$$

$$w^2 + 81 - 18w$$

Question 75

On a certain principal, simple interest amounts to Rs. 1,000 in 1 year at the rate of 10% p.a. What will be the effective rate of interest if the same is compounded on half yearly basis?

A 10.10

B 10.15

C 10.20

D 10.25

Answer: D

Explanation:

R = 10% and R = 5% for half year

Net effective rate in compound interest = $x + y + \frac{x \times y}{100}$

$$5 + 5 + \frac{5 \times 5}{100} = 10.25\%$$

Question 76

In a certain code language if 41095 is READY and 840327 is FRAILS then 83145 419 is

A FEARY RED

B FIERY RED

C FAIRY RED

D FIREY RED

Answer: B

Explanation:

4 1 0 9 5
| | | | |
R E A D Y

8 4 0 3 2 7
| | | | |
F R A I L S

8 3 1 4 5 4 1 9
| | | | | | | |
F I E R Y R E D

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Question 77

Which one of the following does not belong to the group?

- A Monitor
- B Keyboard
- C Webcam
- D Mouse

Answer: A

Question 78

If RATIONAL is CLETZYLW then EXPERIENCE is

- A OIZOCTOYMO
- B QJBDUQZOQ
- C OHZBSOXMO
- D PIAPCTPYNP

Answer: D

Question 79

1\$ = Rs. 67.89. Money changer adds a margin of Rs. 1.11. What will be the cost of \$150?

- A Rs. 10,183
- B Rs. 10,350
- C Rs. 10,330
- D Rs. 10,450

Answer: B

Explanation:

1\$ including margin = $67.89 + 1.11 = 69$

So, cost of \$150 = $69 \times 150 = Rs\ 10350$.

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Question 80

If the area of a circle is 9π sq. cm then its circumference is

- A 9 cm
- B 6π cm
- C 3π cm
- D 6 cm

Answer: B

Explanation:

$$\pi r^2 = 9\pi$$

$$r^2 = 9$$

$$r = 3$$

$$\text{Circumference} = 2\pi r = 2\pi \times 3 = 6\pi$$

Question 81

'Maharatna' refers to a group of

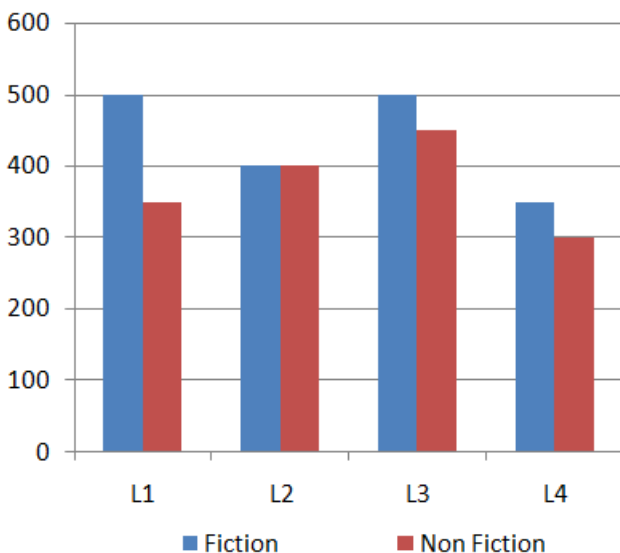
- A Emerging small and medium enterprises.
- B Central public sector enterprises.
- C Leading private sector enterprises.
- D Leading multi-national companies.

Answer: B

Instructions

Consider the bar chart and answer questions based on it.

The bar chart represents number of fiction and non-fiction books in four libraries L1, L2, L3 and L4.



Question 82

What is the percentage difference of total number of Fiction books in libraries L3 and L4 to the Non Fiction books in L3 and L4?

- A 13.34%
- B 11.76%
- C 6.67%
- D It is the same

Answer: B

Explanation:

Total number of fiction books = $500 + 350 = 850$

Total number of non fiction books = $450 + 300 = 750$

Required difference percentage = $\frac{100 \times 100}{850} = 11.76\%$.

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Question 83

The ratio of total books of libraries L1 and L3 to L2 and L4 is

- A 29/36
- B 33/32
- C 36/29
- D 32/33

Answer: C

Explanation:

Total number of books from L1 and L3 = $(500 + 350) + (500 + 450) = 1800$

Total numbers of books from L2 and L4 = $(400 + 400) + (350 + 300) = 1450$

Required ratio = $1800 : 1450 = 36 : 29$.

Question 84

The ratio of total number of Non Fiction to Fiction books in all libraries is

- A 7/6
- B 6/7
- C 15/17
- D 17/15

Answer: B

Explanation:

Total number of non fiction books = $350 + 400 + 450 + 300 = 1500$

Total number of fiction books = $500 + 400 + 500 + 350 = 1750$

Required ratio = $1500 : 1750 = 6 : 7$.

Instructions

For the following questions answer them individually

Question 85

Which of the following statements is true with respect to ASCII?

- A A programming language
- B ASCII chart is not for decimals
- C American security code for information interchange
- D A character encoding scheme

Answer: D

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Question 86

The first Olympics games was held in

- A U.K.
- B U.S.A
- C Greece
- D Italy

Answer: C

Question 87

A person carries Rs. 165/- in the form of currency notes of denominations Rs. 5, Rs. 10 & Rs. 20 in the ratio of 3:2:1. What is the value of currency notes of Rs. 20 denomination?

- A Rs. 60
- B Rs. 100
- C Rs. 40
- D Rs. 80

Answer: A

Explanation:

Let the number of currency notes of denominations Rs. 5, Rs. 10 & Rs. 20 are $3x$, $2x$ and x respectively

According to the question,

$$5 \times 3x + 10 \times 2x + 20x = 165$$

$$55x = 165$$

$$x = 3$$

Value of currency notes of Rs 20 = Rs 60.

Question 88

Which of the following fractions is the highest of all?

- A $5/4$

- B 4/3
- C 3/2
- D 6/5

Answer: C

Explanation:

$$\frac{5}{4} = 1.25, \frac{4}{3} = 1.33, \frac{3}{2} = 1.5, \frac{6}{5} = 1.2$$

Hence, option C is correct.

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Question 89

Name the Indian who became the CEO of Google in 2015.

- A Satya Nadella
- B Cyrus Mistry
- C Sundar Pichai
- D Vishal Sikka

Answer: C

Question 90

The periodicity of the Commonwealth games is

- A No fixed interval
- B 4 years
- C 5 years
- D 6 years

Answer: B

Question 91

Cricket World Cup 2023 is scheduled to be hosted by

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

Answer: A

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Question 92

Which country launched its first commercial satellite on 24th November 2015 as a part of its National Space Program?

- A Russia
- B India
- C Japan
- D China

Answer: C

Question 93

Which of the following is not a Union Territory?

- A Puducherry
- B Chandigarh
- C Lakshadweep
- D Sikkim

Answer: D

Question 94

If '+' and '÷'; '×' and '-' are interchanged in the equation: $17 \div 7 - 27 + 7 \times 37$, then its value will be

- A 7
- B 17
- C 27
- D 37

Answer: A

Explanation:

$$17 \div 7 - 27 + 7 \times 37$$

After interchanging '+' and '÷'; '×' and '-'

$$17 + 7 \times 27 \div 7 - 37$$

$$17 + 27 - 37 = 7$$

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Question 95

If the mathematical operator '+' means division, '-' means multiplication, '×' means subtraction and '÷' means addition, then the value of

$$1 \times 7 + 21 \times 2 \div 2 + 3 - 4 \text{ is}$$

- A 8/3
- B 4/3
- C -4/3

D $-\frac{8}{3}$

Answer: B

Explanation:

$$1 \times 7 + 21 \times 2 \div 2 + 3 - 4$$

After changing the signs

$$1 - 7 \div 21 - 2 + 2 \div 3 \times 4$$

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

$$\frac{2}{3} - 2 + \frac{8}{3} = 3.$$

Question 96

10 people can do a work in 30 days. In how many days, can 15 people complete double the work?

A 20

B 25

C 40

D 45

Answer: C

Explanation:

10 people can complete the work in 30 days

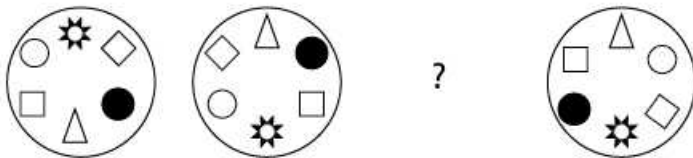
$$\text{Total work} = 10 \times 30 = 300$$

Now double work = 600

$$\text{Required days} = \frac{600}{15} = 40$$

Question 97

Look carefully at the sequence of symbols to find the pattern.



Which of the following will replace the (?) in the sequence?

A



B





Answer: C

Explanation:

If we observe the pattern then we see that the elements star and triangle at the top and bottom interchange their places, and all the rest of the elements move anti clock wise.

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Question 98

Statements followed by some conclusions are given below.

Statements:

1. Most people have orange scooters while some have red ones.
2. People like bright coloured scooters.

Conclusions:

- I. People cannot afford bright coloured cars.
- II. Most people prefer orange over other bright colours.

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:

People cannot afford bright coloured logically not follows because from the statements it was not cleared.

Most people prefer orange over other bright colours logically follows because in statement 1 it was cleared that most people have orange scooters.

Question 99

Which of the following is not a bleaching agent?

- A Sodium hypochlorite
- B Calcium hypochlorite
- C Hydrogen peroxide
- D Hydrogen sulphide

Answer: D

Question 100

Which movement was called off following the violence at 'Chauri Chaura' incident?

- A Khilafat Movement
- B Quit India Movement
- C Non co-operation Movement
- D Home Rule Movement

Answer: C

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