



RRB NTPC 30 March 2016 Shift 1

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Instructions

For the following questions answer them individually

Question 1

S and T can finish a work in 50 days. They worked together for 20 days and then left. How much of the work is left?

- A $3/5$
- B $1/3$
- C $1/2$
- D $2/5$

Answer: A

Explanation:

In 50 days 1 work completed by S and T

So, in 1 day $\frac{1}{50}$ work completed by S and T

In 20 days $\frac{1}{50} \times 20 = \frac{2}{5}$ work completed by S and T

So left work = $1 - \frac{2}{5} = \frac{3}{5}$.

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Question 2

Money can be transferred using mobile phones through the service called

- A HEFT
- B ECS
- C IMPS
- D RTGS

Answer: C

Question 3

Find the factors of $(x^2 + x - 42)$

- A $(x + 14)(x - 3)$
- B $(x + 6)(x - 7)$
- C $(x - 6)(x + 7)$
- D $(x - 14)(x + 3)$

Answer: C

Explanation:

$$(x^2 + x - 42)$$

$$x^2 + 7x - 6x - 42 = 0$$

$$x(x + 7) - 6(x + 7) = 0$$

$$(x - 6)(x + 7) = 0$$

Question 4

The mean of the data 1, 2, 10, 18, 3, 17, 19 is

- A 7
- B 10
- C 17
- D 70

Answer: B

Explanation:

$$\text{Mean} = \frac{1+2+10+18+3+17+19}{7} = \frac{70}{7} = 10.$$

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Question 5

The smell that we get when LPG cylinder leaks is due to the presence of

- A Nitrogen peroxide
- B Carbon monoxide
- C Sulphur compound
- D Carbon dioxide

Answer: C

Question 6

Blotting paper absorbs ink due to

- A Coarse nature of paper
- B Osmosis
- C Capillary action
- D Siphoning

Answer: C

Question 7

Recipient of C. K. Nayudu Lifetime Achievement Award for 2014-15 in cricket was

- A Syed Kirmani
- B E. A. S. Prasanna
- C G. R. Vishwanath
- D Bishan Singh Bedi

Answer: A

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Question 8

Least distance of distinct vision for normal eye is

- A 15 cm
- B 20 cm
- C 25 cm
- D 30 cm

Answer: C

Question 9

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

- A 5th June : World Environment Day
- B 22nd April : Earth Day
- C 22nd March : World Water Day
- D 22nd May : World Sparrow Day

Answer: D

Question 10

IP address refers to

- A A numerical network label.
- B A dynamic link between two computers.
- C A group of networks.
- D Digital 'know your client'.

Answer: A

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Question 11

The first Indian communication satellite was

- A Aryabhata
- B Bhaskara-I
- C Apple
- D Chandrayaan-I

Answer: C

Question 12

The mode and median of the data 8, 6, 8, 7, 8, 6, 8, 7, 6 respectively is

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

Answer: C

Explanation:

Ascending order = 6, 6, 6, 7, 7, 8, 8, 8, 8

Median = 7

Mode = most frequent number = 8 occurs 4 times.

Question 13

The winner of the open competition for designing the Rupee sign '₹' was

- A Uday Kumar
- B Vijay Kumar
- C Prem Kumar
- D Pranav Kumar

Answer: A

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Question 14

What is the length of diagonal, if area of a rectangle is 168cm^2 and breadth is 7cm?

- A 24cm
- B 15cm
- C 17cm
- D 25cm

Answer: D

Explanation:

$$\text{Length} = \frac{168}{7} = 24$$

$$\text{Diagonal} = \sqrt{24^2 + 7^2} = 25 \text{ cm.}$$

Question 15

India's livestock disease monitoring and forecasting system is named as

- A Cattle Safety Laboratory
- B Animal Safety Laboratory

- C Biosafety Laboratory
- D Cattle Monitoring Laboratory

Answer: C

Question 16

The cost of one dozen bananas is Rs. 5. The cost of one dozen oranges is Rs. 75. What will the cost of one and a quarter dozen bananas and three-fourth dozen oranges?

- A Rs. 112.50
- B Rs. 131.25
- C Rs. 102.50
- D Rs. 62.50

Answer: D

Explanation:

given

cost of 12 banana = 5

so therefore cost of one banana is $\frac{5}{12}$

we also know 1 dozen = 12

therefore quarter dozen ($\frac{1}{4}$) is 3 fruits

similarly $\frac{3}{4}$ dozen is 9 fruits

so cost of one and a quarter dozen banana i.e 12 + 3 = 15 banana is $\frac{5}{12} \times 15$
= 6.25 rs

similarly cost of 12 oranges = 75 rs

therefore cost of one orange is $\frac{75}{12}$

therefore cost of 9 oranges is $\frac{75}{12} \times 9$
= 56.25

hence total cost of fruits are 6.25 + 56.25

=62.5 rs

making option D as the correct answer

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Question 17

A shop keeper purchased 10 boxes of pencils containing 10 pencils each at Rs. 100 per box and sold each pencil at a profit 12%. What is the total sale price?

- A Rs. 1,100
- B Rs. 1,120
- C Rs. 1,200
- D Rs. 1,210

Answer: B

Explanation:

$$\text{C.P of 10 boxes} = 10 \times 100 = 1000$$

$$\text{C.P of 1 pencil} = \frac{1000}{100} = 10$$

Profit = 12%

$$\text{S.P} = \frac{112}{100} \times 10 = 11.2$$

$$\text{Total sale price} = 11.2 \times 100 = 1120$$

Question 18

The 'Quit India' movement was launched by Mahatma Gandhi in the year

- A 1941
- B 1942
- C 1945
- D 1946

Answer: B

Question 19

Which of the following is appropriate to describe a Shooting Star?

- A Star
- B Planet
- C Fragments & debris
- D Asteroid

Answer: C

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Question 20

The O-T-C medicine Crocin is an

- A Analgesic
- B Antipyretic
- C Analgesic and antipyretic
- D Antiseptic

Answer: C

Question 21

Cricket World Cup 2019 is scheduled to be hosted by

- A England
- B South Africa

C Wales 

D England and Wales

Answer: D

Question 22

If A means '+', @ means '×', & means '÷' and V means '-', then the value of $7 @ 2 V 135 \& 5 @ 3 \& 9 A 1$

A 14

B 9

C 6

D 1

Answer: C

Explanation:

$7 @ 2 V 135 \& 5 @ 3 \& 9 A 1$

$7 \times 2 - 135 \div 5 \times 3 \div 9 + 1$

$14 - 9 + 1$

6.

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Question 23

Select the alternative that shows a similar relationship as the given pair -
Minimum : Maximum

A Worst : Best

B Happy : Gay

C First : Second

D Sad : Angry

Answer: A

Explanation:

opposite of minimum is maximum similarly opposite of worst is best.

Question 24

If the sum of digits is 9 and the difference between the digit in the ten's place and unit's place is 1, then the two-digit number is?

A 45

B 63

C 54

D 72

Answer: C

Explanation:

Let the number at ten's place be x and unit's place be y

$$x + y = 9 \text{ -----I}$$

$$x - y = 1 \text{ -----II}$$

Adding I and II we get,

$$2x = 10$$

$$x = 5 \text{ and } y = 4$$

Required number = 54.

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

Which of the following is the least of all?

- A 0.5
- B $1/0.5$
- C 0.5×0.5
- D 0.5×2

Answer: C

Explanation:

A. $5/10$

B. $1/5/10 = 2$

C. $0.5 \times 0.5 = 0.25$

D. $0.5 \times 2 = \frac{5}{10} \times 2 = 1$

Question 27

Which instrument is used for viewing the sun?

- A Stroboscope
- B Telescope
- C Helioscope
- D Sun meter

Answer: C

Question 28

Find the least number to be added to 1739 so that it is exactly divisible by 11.

- A 11
- B 2
- C 1
- D 10

Answer: D

Explanation:

If we divide 1739 by 11 then we will get 1 remainder then least number $11-1 = 10$ will be added to get divisible by 11 completely.

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Instructions

Consider the following information and questions based on it.

P, W, Q, X, R, Y, Z and S sit randomly in a circle facing each other.

1. Y sits exactly between Q and R.
2. P does not sit next to either X or Z.
3. Z is to the immediate right of Q.
4. S sits third from the left of X and the right of Y.

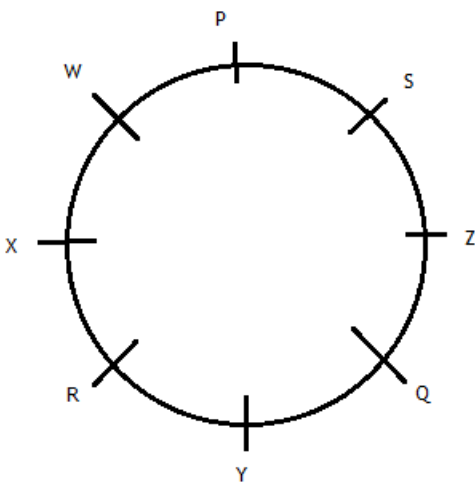
Question 29

Who sits to the left of S?

- A Z
- B X
- C P
- D Q

Answer: A

Explanation:



Z sits to the left of S.

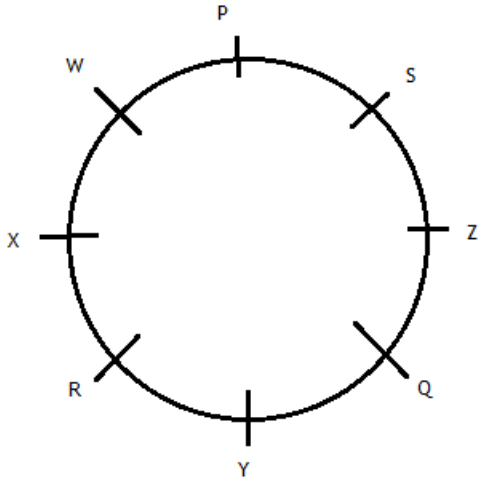
Question 30

If they all were facing outside the circle, W would be to the left of

- A X
- B S
- C P
- D Cannot be determined

Answer: C

Explanation:



W seats left of P.

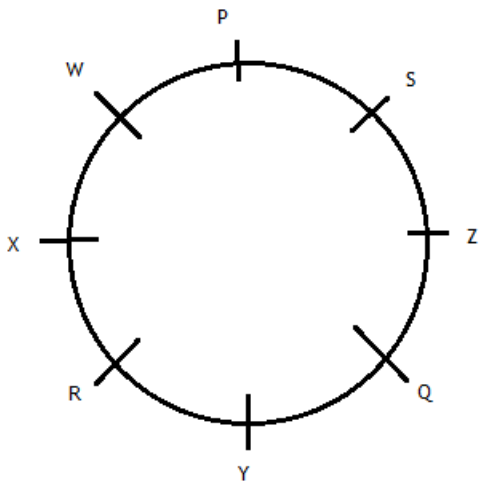
Question 31

X sits between

- A R and Q
- B W and R
- C Q and Y
- D S and W

Answer: B

Explanation:



X seats between W and R.

Instructions

For the following questions answer them individually

Question 32

Read the following paragraph carefully and answer the question based on the information provided in it.

Population explosion needs controlled measures to manage earth's resources. We must find ways to utilize the natural resources in an efficient manner to satisfy the ever-growing needs of the people. Solar energy may be used to replace the increasing demand for fuels like coal; wood and so on. Rainwater harvesting is a must to meet the water needs of the urban population. If we deplete the earth of its resources at such a fast pace, sooner or later we will have to search for another planet that can sustain life like earth. Which of the following is true according to the paragraph?

- A There is another planet in the solar system like earth.
- B The demands of the population are unrealistic and should not be met.
- C Rainwater harvesting replaces the demand for coal and wood.
- D Measures have to be taken to wisely use the available natural resources.

Answer: D

Explanation:

According to the paragraph, measures have to be taken to wisely use the available natural resources.

Question 33

The members of the Rajya Sabha are elected by the

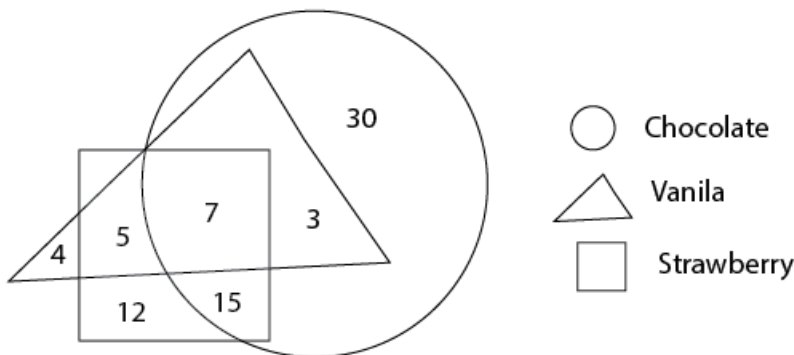
- A Members of legislative assemblies of states.
- B Members of the Lok Sabha.
- C People
- D Members of the legislative council.

Answer: A

Instructions

Study the following diagram and answer questions based on it.

The diagram represents the favourite ice-cream flavours of kids in a society.



Question 34

How many kids like both Chocolate and Vanilla but not Strawberry?

- A 3

B 7

C 12

D 15

Answer: A

Explanation:

Kids like both Chocolate and Vanilla but not Strawberry = 3.

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Question 35

How many kids like Strawberry but not Vanilla?

A 24

B 25

C 27

D 13

Answer: C

Explanation:

Required number is = $15 + 12 = 27$.

Question 36

The ratio of kids who like Vanilla to those who like Chocolate is

A 12/30

B 39/45

C 27/45

D 19/55

Answer: D

Explanation:

Number of kids who likes vanilla = $4+5+7+3 = 19$

Number of kids who likes chocolate = $7+15+3+30 = 55$

Required ratio = $19 : 55$.

Instructions

For the following questions answer them individually

Question 37

Which of the following is in ascending order?

A $2/3, 3/4, 4/5, 1/2$

B $3/4, 4/5, 1/2, 2/3$

C $1/2, 2/3, 3/4, 4/5$

D $4/5, 1/2, 2/3, 3/4$

Answer: C

Explanation:

We will divide the numerator by denominator then we can easily decide the required order.

$1/2 = 0.50, 2/3 = 0.66, 3/4 = 0.75, 4/5 = 0.80$ is in ascending order.

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Question 38

Oncology is associated with treatment of

A Osteoporosis

B Diabetes

C Cancer

D Renal failure

Answer: C

Question 39

$1.1 + 12.12 + 123.123 = ?$

A 134.343

B 133.433

C 132.123

D 136.343

Answer: D

Explanation:

$1.1 + 12.12 + 123.123 = ?$

136.343 .

Question 40

The origin of the tantric Yogini Cult is believed to be from

A Uttar Pradesh

B Bihar

C Odisha

D Rajasthan

Answer: C

Explanation:

Odisha is correct answer.

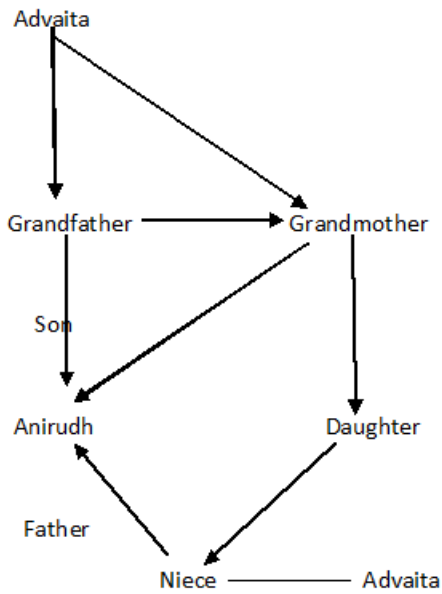
Question 41

Looking at a portrait, Advaita said, "Anirudh is the father of my grandmother's daughter's niece. My grandfather had only two kids". How is Anirudh related to Advaita?

- A Brother – Sister
- B Husband – Wife
- C Maternal Uncle - Niece
- D Father - Daughter

Answer: D

Explanation:



It is given that Grandfather have two kids means one is daughter and one is Anirudh which means Advaita is the daughter of Anirudh. So, relation is father and daughter.

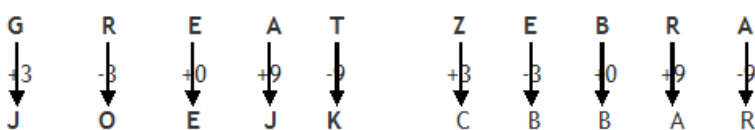
Question 42

In a certain code, if GREAT is coded as JOEJK then ZEBRA is coded as

- A BCBRA
- B BCBAR
- C CBBRA
- D CBBAR

Answer: D

Explanation:



Question 43

Who advocated the introduction of western education and English language in India?

- A Bal Gangadhar Tilak
- B Raja Ram Mohan Roy
- C Dadabhai Naoroji
- D Gopal Krishna Gokhale

Answer: B

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Question 44

If the value of $\theta = 30^\circ$, then value of $\tan^2 \theta + \cot^2 \theta$

- A 1/3
- B 4/3
- C 9/3
- D 10/3

Answer: D

Explanation:

$$\tan^2 \theta + \cot^2 \theta$$

$$\tan^2 30 + \cot^2 30$$

$$\left(\frac{1}{\sqrt{3}}\right)^2 + (\sqrt{3})^2 = \frac{1}{3} + 3 = \frac{10}{3}$$

Question 45

If PRINTER is \$ # @ * ! & # , then INTERPRETER is

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

Answer: C

Explanation:

P = \$, R = #, I = @, N = *, T = !, E = &, R = #

Similarly,

INTERPRETER = @ * ! & # \$ # & ! & # .

Question 46

Shimla Agreement 1972 was signed by

- A Foreign Ministers of India & Pakistan
- B Indira Gandhi & Z. A. Bhutto

- C Indira Gandhi & Benazir Bhutto
- D A. B. Vajpayee & Pervez Musharraf

Answer: B

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Question 47

A polygon has 9 sides. What is its interior angle?

- A 140°
- B 100°
- C 120°
- D 40°

Answer: A

Explanation:

$$\text{Interior angle} = \frac{(n-2) \times 180}{n}$$

$$\frac{(9-2) \times 180}{9} = 140^\circ$$

Question 48

125 - 73 + 48 - 137 + 99 = ?

- A 237
- B 62
- C -37
- D 52

Answer: B

Explanation:

125 - 73 + 48 - 137 + 99 = ?

272 - 210

62.

Question 49

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

- A DRE
- B LUBE
- C GROANE
- D KNIP

Answer: C

Explanation:

A = RED, B = BLUE, C = ORANGE, D = PINK

ORANGE is not primary colour.

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Question 50

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

Assertion (A): Agricultural activities are less on mountainous regions.

Reason (R): Mountains have less fertile terrain and difficult weather conditions.

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:

In mountain area it is very difficult to do farming because land of mountain area are less fertile for growing agro products.

So both A and R are true and R is the correct explanation of A.

Question 51

Statements followed by some conclusions are given below.

Statements:

1. Some football players are cricketers.
2. All hockey players love football though some are cricketers.

Conclusions:

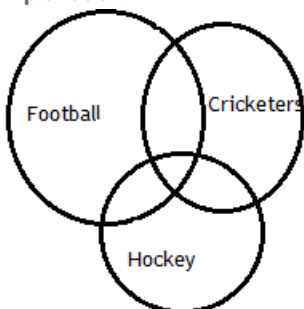
- I. Some hockey players who are cricketers play football too.
- II. There is at the most one cricketer who plays football and hockey.

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:



- I. Some hockey players who are cricketers play football too. False because All hockey players love football though some are cricketers.
- II. There is at the most one cricketer who plays football and hockey. False.

Question 52

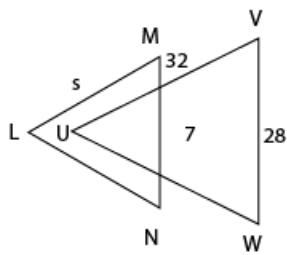
Rupee 5 and 10 coins are now made of

- A Ferritic stainless steel
- B Silver and steel
- C Cupro nickel alloy
- D Copper and brass

Answer: C

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Question 53



If LMN and UVW are similar triangles, the value of side s is

- A 4
- B 6
- C 8
- D 9

Answer: C

Explanation:

If triangles are similar then ratio of corresponding sides is equal

$$\frac{NM}{WV} = \frac{LM}{UV}$$

$$\frac{7}{28} = \frac{s}{35}$$

$$s = 8.$$

Question 54

Statements followed by some conclusions are given below.

Statements:

- A. Some electricians are plumbers.
- B. All plumbers are mechanics.

Conclusions:

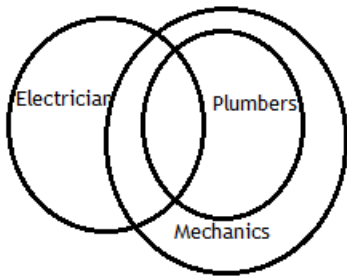
- I. Some mechanics are electricians or plumbers.
- II. Not all electricians are mechanics.

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: A

Explanation:



I. Some mechanics are electricians or plumbers true from the above diagram.

II. Not all electricians are mechanics false because from the above diagram some electricians are mechanics is true.

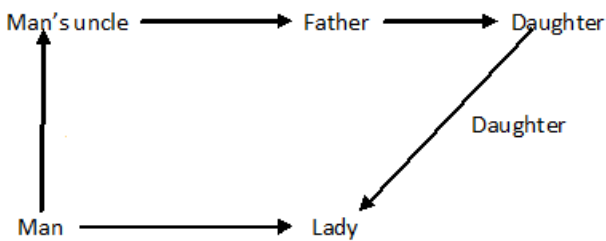
Question 55

A man introduces a lady as the daughter of the daughter of the father of his uncle. His uncle has only one sibling. The lady is the man's

- A Mother
- B Paternal Aunt
- C Sister
- D Daughter

Answer: C

Explanation:



Man's uncle has only one siblings means uncle brother is Man's father and Uncle's father is man's grand father so lady is the daughter of grand father's daughter which is man's sister.

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Question 56

Find the Greatest Common Factor of 280 and 144.

- A 2
- B 8
- C 6
- D 4

Answer: B

Explanation:

we will do prime factorisation,

$$280 = 2 \times 2 \times 2 \times 5 \times 7$$

$$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$$

$$\text{Hence, GCF} = 2 \times 2 \times 2 = 8$$

Question 57

10 dozen apples, 15 dozen mangoes & 20 dozen oranges are kept for sale. $\frac{1}{2}^{\text{nd}}$, $\frac{1}{3}^{\text{rd}}$ & $\frac{1}{4}^{\text{th}}$ of each item respectively have been added. What is the total number of fruits kept for sale now?

- A 720
- B 600
- C 580
- D 820

Answer: A

Explanation:

$$\text{Apples added} = 10 \times \frac{1}{2} = 5 \text{ dozens}$$

$$\text{Mangoes added} = 15 \times \frac{1}{3} = 5 \text{ dozens}$$

$$\text{Mangoes added} = 20 \times \frac{1}{4} = 5 \text{ dozens}$$

$$\text{Required numbers of fruits} = 12 (5 + 5 + 5 + 10 + 15 + 20) = 12 \times 60 = 720 .$$

Question 58

Car B is running twice as fast as car A. If car A covers a distance of 90 km in $1\frac{1}{2}$ hrs, what is the speed of car B?

- A 60 kmph
- B 90 kmph
- C 100 kmph
- D 120 kmph

Answer: D

Explanation:

$$\text{Speed of car A} = 90 \times \frac{2}{3} = 60 \text{ kmph}$$

$$\text{Hence, speed of car B} = 120 \text{ kmph.}$$

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Question 59

Which signs should be interchanged if the equation below needs to be true?

$$1.5 + 8 \times 9 - 16 \div 2 = 4$$

- A \times and $-$
- B \div and $-$
- C $+$ and \div
- D $-$ and $+$

Answer: B

Explanation:

$$1.5 + 8 \times 9 - 16 \div 2 = 4$$

After interchanging the sign \div and $-$

$$1.5 + 8 \times 9 \div 16 - 2 = 4$$

$$1.5 + 4.5 - 2 = 4$$

$$4 = 4$$

Question 60

National Space Society gave the 2015 Space Pioneer Award to

- A Mylswamy Annadurai, Head of Mars orbiter program team
- B ISRO' s Mars Orbiter programme team
- C Mangalyaan
- D K. Radhakrishnan

Answer: B

Question 61

Read the information carefully and select the correct option.

Offer A: Buy one item for Rs. 1599/- and get one free.

Offer B: Buy one item for Rs. 999/- and get another at 50% discount.

- A A is cheaper and B is costlier
- B A is costlier and B is cheaper
- C Cost is same in both cases
- D A and B are not comparable

Answer: B

Explanation:

Offer A: Buy one item for Rs. 1599/- and get one free

S.P of two item = Rs. 1599

Offer B: Buy one item for Rs. 999/- and get another at 50% discount

S.P of 1st item = 999

S.P of 2nd item = $999 \times \frac{50}{100} = \text{Rs. } 499.5$

So, A is costlier and B is cheaper.

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Question 62

A man walks at a speed of 3 kmph. He doubles his speed after reaching exactly half way. He walks for 5 hours in all. What is the total distance travelled by him?

- A 18 km
- B 15 km
- C 12 km

D 20 km

Answer: D

Explanation:

Let the time taken to cover first half of the distance be x hrs and speed = 3 kmph

Time taken to cover the remaining distance is $5-x$ hrs and speed = 6 kmph

Distance will be same in both case,

So,

$$3x = 6(5-x)$$

$$3x = 30 - 6x$$

$$9x = 30$$

$$x = \frac{30}{9} = \frac{10}{3} \text{ hours}$$

$$\text{Half distance} = \text{Speed} \times \text{Time} = \frac{10}{3} \times 3 = 10 \text{ km}$$

$$\text{Total distance} = 2 \times 10 = 20 \text{ km.}$$

Question 63

If TREK = 8346 and FAMILY = 209175, then REALITY = ?

A 3427185

B 3407185

C 3409175

D 3490185

Answer: B

Explanation:

TREK = 8346, T=8, R=3, E=4, K=6

FAMILY = 209175, F=2, A=0, M=9, I=1, L=7, Y=5

REALITY = 3407185.

Question 64

Find the similarity in the following:

Plays, Movies, Documentary, Road shows

A All can be used to convey social messages.

B All are show-cased in theatres.

C All of them are only in English language.

D No similarity

Answer: A

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Question 65

Indian armed forces conducted 'Operation Meghdoot' at

- A Kargil
- B Srinagar
- C Siachen
- D Amritsar

Answer: C

Question 66

If $\cos \theta = \frac{4}{5}$, then $(\sec \theta + \operatorname{cosec} \theta) =$

- A $\frac{7}{5}$
- B $\frac{15}{12}$
- C $\frac{35}{12}$
- D $\frac{12}{5}$

Answer: C

Explanation:

$$\cos \theta = \frac{B}{H} = \frac{4}{5}$$

$$P = \sqrt{5^2 - 4^2} = \sqrt{9} = 3$$

$(\sec \theta + \operatorname{cosec} \theta)$

$$\frac{H}{B} + \frac{H}{P}$$

$$\frac{5}{4} + \frac{5}{3} = \frac{35}{12}$$

Question 67

If $3A = 2B = C$, then $A:B:C = ?$

- A 6:2:3
- B 1/3:1/2:1
- C 3:2:1
- D 1:3:2

Answer: B

Explanation:

Let $C = 1$

$$\text{Then, } 2B = 1, B = \frac{1}{2}$$

$$3A = C = 1, A = \frac{1}{3}$$

$$A:B:C = \frac{1}{3} : \frac{1}{2} : 1$$

Question 68

Champions of the 2nd football Indian Super League (ISL) were

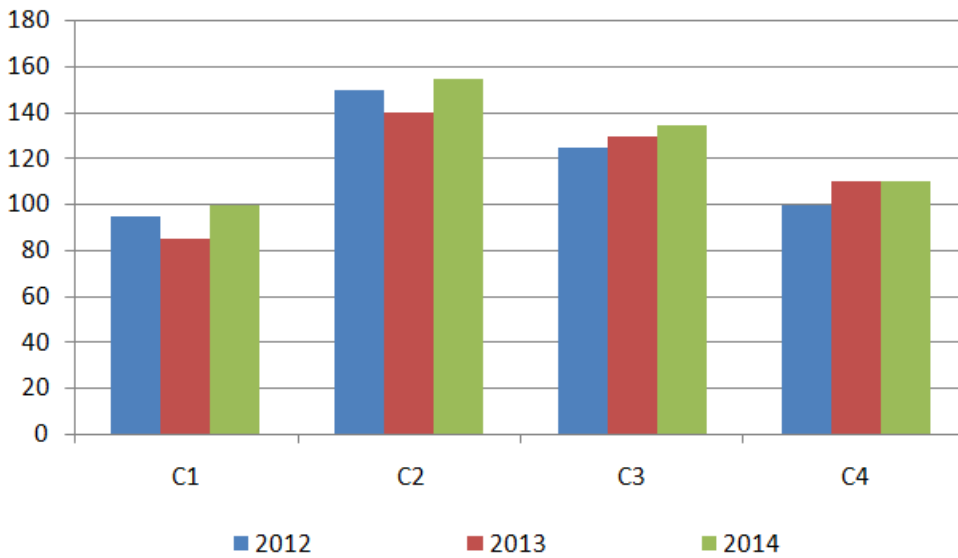
- A FC Goa
- B Chennaiyin FC
- C Delhi Dynamos
- D Atletico de Kolkata

Answer: B

Instructions

Consider the bar chart and answer questions based on it.

The bar chart represents sales of four companies C1, C2, C3 and C4 (in millions) for the year 2012, 2013 and 2014.



Question 69

The ratio of combined sales of C1 and C4 in the year 2013 to that of year 2012 is

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

Answer: A

Explanation:

Required ratio = $(85 + 110) : (95 + 100) = 195 : 195 = 1 : 1$.

Question 70

Which two companies showed increase in their sales from 2012 to 2013?

- A C1, C4
- B C2, C3

C C3, C4

D C1, C3

Answer: C

Explanation:

Sale of C3 in 2012 = 125

Sale of C3 in 2013 = 130

Sale of C4 in 2012 = 100

Sale of C4 in 2013 = 110

So, sale of C3 and C4 increase from 2012 to 2013.

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Question 71

The combined sales of C2 in 2012 and 2014 is how much more than that of C3 for the same years?

A 12%

B 13.72%

C 14.75%

D 17.30%

Answer: D

Explanation:

C2 in 2012 and 2014 = 150 + 155 = 305

C3 in 2012 and 2014 = 125 + 135 = 260

Required percent = $\frac{45 \times 100}{260} = 17.30\%$.

Instructions

For the following questions answer them individually

Question 72

How many 6's are there in the following sequence that are immediately preceded by 3 but not immediately followed by 0?

3 6 9 0 6 9 3 6 9 3 6 6 3 6 0 6 3 3 6 0

A 8

B 3

C 5

D 6

Answer: B

Explanation:

3 6 9 0 6 9 3 6 9 3 6 6 3 6 0 6 3 3 6 0

According to the given format there are three numbers.

Question 73

Rajiv Gandhi Khel Ratna awardee for 2015 was

- A Saina Nehwal
- B Sania Mirza
- C Vijay Kumar
- D Mary Kom

Answer: B

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Question 74

The richest source of Vitamin D from food is

- A Cotton seed oil
- B Olive oil
- C Cod liver oil
- D Sunflower oil

Answer: C

Question 75

R borrowed Rs. 1,200 at 13% per annum simple interest. What amount will R pay to clear the debt after 5 years?

- A Rs. 1,860
- B Rs. 1,880
- C Rs. 1,980
- D Rs. 2,000

Answer: C

Explanation:

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

$$\frac{1200 \times 5 \times 13}{100} = 780$$

So, after 5 years R have to pay = 1200 + 780 = Rs 1980.

Question 76

Find the standard deviation of {11, 7, 10, 13, 9}

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

Answer: B

Explanation:

x	Y = Average of given set	(x-y) ²
11	10	(11-10) ² = 1
7	10	(7-10) ² = 9
10	10	(10-10) ² = 0
13	10	(13-10) ² = 9
9	10	(9-10) ² = 1

$$\text{Standard deviation} = \sqrt{\frac{\sum (x-y)^2}{N-1}} = \sqrt{\frac{20}{4}} = 2.24.$$

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Question 77

Thar desert is in

- A Madhya Pradesh
- B Rajasthan
- C Gujarat
- D Uttarakhand

Answer: B

Question 78

The summer capital of J&K Government is

- A Jammu
- B Srinagar
- C Gulmarg
- D Anantnau

Answer: B

Question 79

National Good Governance Day is observed in India on

- A Dec 24
- B Dec 25
- C Dec 26
- D Dec 31

Answer: B

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Question 80

Q purchased a table for Its. 13,500 and sold it for Rs. 11,000. What is his loss percentage?

- A 19.81%
- B 20.62%
- C 21.78%
- D 22.34%
- E 18.51%

Answer: E

Explanation:

C.P of table 13500

S.P of table = 11000

Loss = 13500 - 11000 = 2500

Loss% = $\frac{2500 \times 100}{13500} = 18.51\%$.

Question 81

Air pollution level is considered to be moderate if Air Quality index between

- A 0 to 50
- B 51 to 100
- C 101 to 150
- D 151 to 200

Answer: B

Question 82

Swachh Bharat Mission is to

- A Levy Swachh Bharat cess and earn revenue.
- B Make celebrities clean the roads.
- C Achieve clean and healthy India.
- D Dispose off waste material.

Answer: C

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Question 83

If Quarantine : Isolation, then Freedom :

- A Separation
- B Detention
- C Liberation
- D Constitution

Answer: C

Explanation:

Meaning of Quarantine and Isolation is to separate some thing,
In the same way Freedom me liberal so liberation is correct.

Question 84

If Q = 10 and FAX = 50, then XEROX =?

- A 45
- B 46
- C 49
- D 50

Answer: C

Explanation:

Alphabetical position from back then,

Q = 10,

F = 21, A = 26, X = 3

FAX = 21 + 26 + 3 = 50

In the same way,

XEROX = 3 + 22 + 9 + 12 + 3 = 49.

Question 85

Find the missing (?) in the series TUS, QRP, ? KLJ, HIG

- A ONM
- B MNO
- C NOM
- D MON

Answer: C

Explanation:

	-3		-3		-3		-3							
T	U	S,	Q	R	P,	N	O	M,	K	L	J,	H	I	G
	-3		-3		-3		-3		-3		-3		-3	
	-3		-3		-3		-3		-3		-3		-3	

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Question 86

IFSC is the short term of

- A International Financial System Code
- B Indian Financial System Code

- C Inter-bank Financial System Code
- D Inter-bank Functional System Code

Answer: B

Question 87

The 'Constitution Day' of India is observed on

- A 24th November
- B 25th November
- C 26th November
- D 27th November

Answer: C

Question 88

Safety matches contain

- A Sulphur
- B Phosphorus
- C Magnesium
- D Potassium

Answer: B

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Question 89

From the following former Prime Ministers, whose name can be found on Indian currency notes?

- A Atal Bihari Vajpayee
- B Indira Gandhi
- C Dr. Manmohan Singh
- D Narasimha Rao

Answer: C

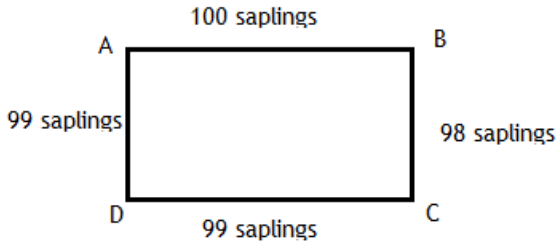
Question 90

A square ground is to be covered by planting 100 saplings on each side. How many saplings are needed in all?

- A 400
- B 404
- C 396
- D 408

Answer: C

Explanation:



Note - Corners are common

So, required saplings = $100 + 99 + 99 + 98 = 396$.

Question 91

P can do a work in 10 days. Q can do the same work in 15 days. If they work together for 5 days, how much of the work will they complete?

A $\frac{1}{2}$

B $\frac{2}{3}$

C $\frac{1}{3}$

D $\frac{5}{6}$

Answer: D

Explanation:

P's 1 day work = $\frac{1}{10}$

Q's 1 day work = $\frac{1}{15}$

(P+Q)'s 1 day work = $\frac{1}{10} + \frac{1}{15} = \frac{1}{6}$

(P+Q)'s 5 days work = $5 \times \frac{1}{6} = \frac{5}{6}$

So, they will complete $\frac{5}{6}$ of the work.

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Question 92

The third generation anti-tank missile that was successfully test fired by DRDO at Rajasthan is named

A Azni

B Nag

C Cobra

D Toophan

Answer: B

Question 93

You went to buy 3 articles worth Rs.500 each. However, as per the discount sale going on in the shop, you paid for two and got one free. What is the discount percentage in the deal?

- A 30%
- B 33%
- C 33.13%
- D 33.33%

Answer: D

Explanation:

C.P of three articles = $3 \times 500 = 1500$

Discount is Rs 500

Discount % = $\frac{500}{1500} \times 100 = 33.33\%$.

Question 94

During India's freedom struggle,, the newspaper 'Young India' was published by

- A B. R. Ambedkar
- B Subhash Chandra Bose
- C Mahatma Gandhi
- D Muhammad Ali Jinnah

Answer: C

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Question 95

Which of the following does not belong to the group?

- A UNIX
- B MS-DOS
- C WINDOWS
- D FIREWALL

Answer: D

Explanation:

Except Firewall all other options are the name of operating system.

Question 96

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

- A $a^2 - b^2$
- B $a^2 + b^2$
- C $a^2 - 4ab + b^2$
- D $a^2 - 2ab + b^2$

Answer: B

Explanation:

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

$$a^2 + b^2 - 2ab + 2ab$$

$$a^2 + b^2$$

Question 97

A company recruits candidates satisfying the following criteria

1. Candidates who secured at least 85% in standard 10th or equivalent.
2. Candidates who secured at least 65% in standard 12th or equivalent.
3. Candidates who are not from commerce background.

Who among the following candidates will the company definitely select?

- A Jitesh is a science student having scored 70% in standard 12th and 80% in 10th with an excellent sports background.
- B Jignesh scored 80% in standard 12th, 90% in standard 10th and secured 2nd place in his college among all commerce students.
- C Jayesh scored 75% in standard 10th, 75% in standard 12th and is an arts student.
- D Jinesh secured 80% in standard 12th, 88% in standard 10th and is a science student with great acting skills.

Answer: D

Explanation:

We need the candidate with 85% in 10th or equivalent, 65% in 12th or equivalent and candidate with other than commerce background.

So, Jinesh is satisfying all the criteria.

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Question 98

What is the ratio of simple interest earned on certain amount at the rate of 12% for 6 years and that for 12 years?

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

Answer: A

Explanation:

We will not principal because principal is same so it will not effect on ratio

$$\text{Net effective rate for 6 years} = 12 \times 6 = 72\%$$

$$\text{Net effective rate for 12 years} = 12 \times 12 = 144$$

$$\text{Required ratio} = 72 : 144 = 1 : 2.$$

Question 99

Head Quarters of U.N.O. is in

- A New York
- B Washington
- C Geneva

D Vienna

Answer: A

Question 100

The function of BIOS is to

- A Initialize the system hardware components.
- B Update the system.
- C Ensure system performance.
- D Save the system from crashing.

Answer: A

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