



RRB NTPC 18 April 2016 Shift 1

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RRB NTPC 18 April 2016 - Shift 1

Instructions

For the following questions answer them individually

Question 1

Which is India's first defense satellite?

- A INSAT 2B
- B GSAT-7
- C GSAT 6
- D IRS-1A

Answer: B

Explanation:

GSAT-7, the multi-band communication satellite named Rukmini carries the payloads in UHF, C band and K_u band. It is the first dedicated military communication satellite (unlike earlier dual use satellites) built by ISRO that will provide services to the Indian defence forces with the main user being the Indian Navy.

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Question 2

Below are given statements followed by two conclusions I and II. You have to take the given statements to be true even if they seem to be at variance from commonly known facts.

Statements:

- A: All mothers are aunts.
- B: All aunts are ladies.

Conclusions:

- I. All ladies are mothers.
- II. All ladies are aunts.

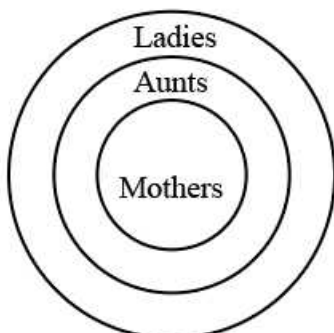
Decide which of the below options logically follows the given Statement.

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

Answer: D

Explanation:

The least possible Venn diagram is as follows:



Conclusions:

I. All ladies are mothers. → False (it is possible but not definite)

II. All ladies are aunts. → False (it is possible but not definite)

Hence, neither I nor II follows.

Question 3

Which of the following ratio is greatest?

A 7:15

B 15:23

C 17:25

D 21:29

Answer: D

Explanation:

$$\frac{7}{15} = 0.466, \frac{15}{23} = 0.652, \frac{17}{25} = 0.68, \frac{21}{29} = .724$$

Question 4

Choose the one which is odd from the following options.

A Coffee

B Rice

C Tobacco

D Sugarcane

Answer: B

Explanation:

In the given option except rice, all are plantation crop. While Rice is a Khariff crop. Plantation crops constitute a large group of crops. The major plantation crops include coconut, areca nut, oil palm, cashew, tea, coffee, Tobacco, Sugarcane and rubber; the minor plantation crops include cocoa. Their total coverage is comparatively less and they are mostly confined to small holdings.

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Question 5

The passenger reservation system of the Indian Railways is designed by

A TCS

B CRIS

C Google

D CMS

Answer: B

Question 6

What is the chemical name given of chalk?

A Calcium Sulphate

- B Calcium Nitrate
- C Calcium Carbonate
- D Calcium Phosphide

Answer: C

Question 7

What is the name of the book in Harry Potter series written by Jack Thorne to be published in mid-2016?

- A Harry Potter and the Cursed Child
- B Harry Potter and the Deathly Hallows.
- C Fantastic Beasts and Where to Find Them
- D The Tales of Beedle the Bard.

Answer: A

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Question 8

If $3.5x = 0.07y$, then find the result of $[y-x / y+x]$

- A 51/49
- B 49/53
- C 49/51
- D 53/57

Answer: C

Explanation:

Given $3.5x = 0.07y$

$[y-x / y+x]$ -----1

from this we get

$y=50x$

Put in given equation

$[(50x-x)/(50x+x)]$

49/51

Question 9

Article 29 of the Constitution of India grants which of the following rights?

- A Protection in respect of conviction for offences
- B Traffic in human beings prohibited
- C Protection of interests of minorities
- D Prohibits taxes on religious grounds

Answer: C

Question 10

Find 150% of X, if X is the least number which when divided by 6, 7, 8, 9 and 12 leaves remainders 2, 3, 4, 5 and 8 respectively.

- A 750
- B 500
- C 1000
- D 1200

Answer: A

Explanation:

Find the LCM OF 6,7,8,9 AND 12

$$\text{LCM}(6,7,8,9,12) = 504$$

Here $6-2 = 4$, $7-3 = 4$, $8-4 = 4$, $9-5 = 4$ and $12-8 = 4$ so on.

So required number X is $= 504 - 4 = 500$

$$150\% \text{ of } X = 750$$

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Question 11

For real a, b and c if $a^2 + b^2 + c^2 = ab + bc + ca$, then find the value of $(a + b + c)^2$

- A $9a^2$
- B $81a^2$
- C $27a^2$
- D $243a^2$

Answer: A

Explanation:

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

Multiply both sides with 2, we get

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

$$(a^2 - 2ab + b^2) + (b^2 - 2bc + c^2) + (c^2 - 2ca + a^2) = 0$$

$$(a - b)^2 + (b - c)^2 + (c - a)^2 = 0$$

Since the sum of square is zero then each term should be zero

$$(a - b)^2 = 0$$

$$(b - c)^2 = 0$$

$$(c - a)^2 = 0$$

$$a = b = c$$

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

from equation 1

$$= a^2 + a^2 + a^2 + 2 \times 3a^2$$

$$= 9a^2$$

Question 12

MATHEMATICS is related to NUMBERS in the same way HISTORY is related to

- A EVENTS
- B PEOPLE
- C WARS
- D DATES

Answer: A

Explanation:

Mathematics consists of Numbers. Similarly, History is consists of Events

Question 13

In which year was Facebook started?

- A 2002
- B 2004
- C 2008
- D 2009

Answer: B

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Question 14

What is the chemical formula of Ozone?

- A O
- B O_2
- C O_3
- D O_4

Answer: C

Question 15

An Assertion (A) and a Reason (R) are given below.

Assertion (A): Earthworms are not good for agriculture.

Reason (R): Earthworms break down the soil into fine particles and make it soft.

Choose the correct option.

- A A is true but R is false.
- B A is false but R is true.
- C Both A and R are true and R is the correct explanation of A.

D Both A and R are false

Answer: B

Explanation:

Earthworms are good for agriculture as they make the soil fertile. Therefore, assertion is false but the reason is true.

Question 16

What is the sound made by seal called?

A Bark

B Moo

C Screech

D Growl

Answer: A

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Question 17

Based on the analogy given, find the missing number from the given options.

7528 : 5362 :: 4673 : ?

A 2351

B 2541

C 2451

D 2531

Answer: C

Question 18

If STUDENT is coded as 103, what is the code for SCHOOL?

A 72

B 27

C 37

D 73

Answer: A

Explanation:

Considering place value of the alphabets,

STUDENT = $19 + 20 + 21 + 4 + 5 + 14 + 20 = 103$

Similarly,

SCHOOL = $19 + 3 + 8 + 15 + 15 + 12 = 72$

Thus SCHOOL is coded as 72.

Question 19

If 'P' means 'divided by', 'T' means 'add' 'M' means 'subtract' and 'D' means 'multiplied by', then what will be the value of the following expression?

12 M 12 D 28 P 7 T 15

- A -21
- B 15
- C 30
- D -15

Answer: A

Explanation:

Given : 12 M 12 D 28 P 7 T 15

Code PTMD

Symbol ÷ + - ×

Code	P	T	M	D
Symbol	÷	+	-	×

After decoding: $12 - 12 \times 28 \div 7 + 15$

$\rightarrow 12 - 48 + 15$

$\rightarrow 27 - 48 = -21$

Hence, -21 is the correct answer.

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Question 20

Who was the dentist who killed Cecil-the Lion in 2015?

- A John Walker
- B Gary Crow
- C Walter Palmer
- D Rupert Watson

Answer: C

Question 21

The energy which we get from food is measured in

- A Calories
- B Kelvin
- C Fat
- D Amperes

Answer: A

Question 22

How many litres of blood does an adult body have?

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

Answer: C

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Question 23

Who is known as the Father of video games?

- A Karl Benz
- B Emile Berliner
- C Rudolf Diesel
- D Ralph H. Baer

Answer: D

Question 24

If Sunita earns 75/4% more than her boyfriend, find the approximate % her boyfriend earns less than Sunita.

- A 16%
- B 14%
- C 25%
- D 11%

Answer: A

Explanation:

Let her boyfriend earned= x

$$\text{then Sunita earn} = x + \frac{75x}{100} = \frac{175x}{100} = \frac{7x}{4}$$

$$\text{difference} = \frac{7x}{4} - x = \frac{3x}{4}$$

$$\% = \frac{\frac{3x}{4}}{\frac{7x}{4}} \times 100 = \frac{3}{7} \times 100 = 42.85\% \approx 43\%$$

Question 25

If the angles of a triangle are in the ratio of 2:3:7, then find the ratio of the greatest angle to the smallest angle.

- A 7:2
- B 2:3

C 7:1

D 3:5

Answer: A

Explanation:

Let the angles be $2x$, $3x$, $7x$

$2x+3x+7x=180$. (sum of angles of triangle is 180°)

$x=15$

so, largest angle is 105°

Small angle = 30

Ratio = $30:105$

= $2:7$

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Question 26

Which wood is used to make a cricket bat?

A Teak

B Willow

C Bamboo

D Rosewood

Answer: B

Question 27

What of the given below devices converts chemical energy to electrical energy?

A Transformer

B Battery

C Electric Generator

D Wheel

Answer: B

Question 28

An angle is 30° more than one half of its complement. Find difference between the greater and the smaller angles.

A 10°

B 20°

C 30°

D 25°

Answer: A

Explanation:

Let the smaller and greater angles be x and y respectively.

We know that,

Sum of complementary angles = 90°

$$\Rightarrow x + y = 90^\circ$$

$$\Rightarrow y = 90^\circ - x$$

An angle is 30° more than one half of its complement.

$$\Rightarrow y = x/2 + 30^\circ$$

$$\Rightarrow 90^\circ - x = x/2 + 30^\circ \quad (\text{Put the value of } y = 90^\circ - x)$$

$$\Rightarrow 60^\circ = 3x/2$$

$$\Rightarrow x = 120^\circ/3 = 40^\circ$$

Then,

$$\Rightarrow y = 90^\circ - 40^\circ = 50^\circ$$

Difference between the greater and the smaller angles

$$\Rightarrow y - x = 50^\circ - 40^\circ = 10^\circ$$

\therefore The difference between the greater and the smaller angles = 10°

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Question 29

What are the components of $(x^6 - x^4 - x^5 - x^4 + x^2 - 4)$

A $(x - 1)$

B $(x + 1)$

C Both $(x - 1)$ & $(x + 1)$

D Neither $(x - 1)$ or $(x + 1)$

Answer: D

Explanation:

As $(x - 1)$ and $(x + 1)$ are given in options, let us check by substituting $x = 1$ and $x = -1$.

Substitute $x = 1$ in the given equation.

$$x^6 - x^4 - x^5 - x^4 + x^2 - 4 = 1^6 - 1^4 - 1^5 - 1^4 + 1^2 - 4 = -5$$

Hence, $(x - 1)$ is not a factor of the given equation.

Now,

Substitute $x = -1$ in the given equation.

$$x^6 - x^4 - x^5 - x^4 + x^2 - 4 = (-1)^6 - (-1)^4 - (-1)^5 - (-1)^4 + (-1)^2 - 4 = -3$$

\therefore Neither $(x - 1)$ or $(x + 1)$ are the components of $(x^6 - x^4 - x^5 - x^4 + x^2 - 4)$.

Question 30

Who fought Alunad Shah Abdali at the third battle of Panipat?

A Mughals

B Lodhis

C Marathas

D Khiljis

Answer: C

Question 31

Which of the following is not a greenhouse gas?

A Carbon dioxide

B Methane

C Chlorofluorocarbons

D Oxygen

Answer: D

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Question 32

What are stars primarily made of?

A Oxygen and Hydrogen

B Hydrogen and Carbon

C Hydrogen and Helium

D Oxygen and Helium

Answer: C

Question 33

On which date was the partition of India announced?

A 15th Aug 1947

B 3rd June 1947

C 17th July 1947

D 1st July 1947

Answer: B

Question 34

Find the simple interest on Rs. 50 for 6 months at the rate of 10 paise per rupee per month.

A Rs. 35

B Rs. 40

C Rs. 25

D Rs. 30

Answer: D

Explanation:

$$P=50$$

$$T=6 \text{ month}$$

rate of 10 paise per rupee per month

$$\text{So } R=10$$

we know

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

$$S.I = \frac{50 \times 10 \times 6}{100}$$

$$S.I = 30$$

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Question 35

Two numbers are in the ratio 5:6. When 6 is added to each, the ratio becomes 7:8 then the numbers are

A 10 & 12

B 20 & 24

C 15 & 18

D 5 & 6

Answer: C

Explanation:

Let the first number be $5x$

So, the second number be $6x$

Added 6 to each then

$$\frac{5x+6}{6x+6} = \frac{7}{8}$$

$$\frac{5x+6}{3x+3} = \frac{7}{4}$$

$$20x + 24 = 21x + 21$$

$$x = 3$$

first number be $5x=15$

second number be $6x=18$

Question 36

If the given interchanges namely: signs + and \div and numbers 2 and 4 are made in signs and numbers, which one of the following would be correct?

A $4 + 2 \div 6 = 1.5$

B $2 + 4 \div 6 = 8$

C $2 + 4 \div 3 = 3$

D $4 \div 2 + 3 = 4$

Answer: B

Explanation:

$$2 + 4 \div 6 = 8$$

Interchange signs + and \div and numbers 2 and 4

$$4 \div 2 + 6 = 8$$

$$8 = 8$$

Question 37

Stainless steel was invented by

- A William Howard Livens
- B Joseph Aspdin
- C Harry Brearley
- D James Dyson

Answer: C

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Question 38

If **BORDER** is coded as 579649, then **ORDER** can be coded as

- A 79469
- B 79649
- C 76949
- D 79667

Answer: B

Explanation:

Solution:

The given code are as follows:

Alphabet **BORDER**

Code 579649

Similarly,

Alphabet **ORDER**

Code 79649

Hence, code for **ORDER** is 79649.

Question 39

The disease cirrhosis affects which organ in the body?

- A Brain
- B Liver
- C Heart
- D Kidney

Answer: B

Question 40

The ratio between the speeds of two buses is 11:9. If the second bus runs 270 kms in 15 hours, then the speed of the first bus is?

- A 23 km/hr
- B 11 km/hr
- C 2 km/hr
- D 22 km/hr

Answer: D

Explanation:

Let speed of 1st bus = $11x$

and speed of 2nd bus = $9x$

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

According to the question,

speed of second bus = $\frac{270}{15} = 18 \text{ km/hr}$

$9x = 18$

$x = 2$

Speed of 1st bus = $2 \times 11 = 22$

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Question 41

Who presented the first Union Budget in 1947?

- A Indira Gandhi
- B Morarji Desai
- C R.K.Shanniukham Chetty
- D John Mathai

Answer: C

Question 42

On which network was the first SMS sent?

- A Airtel
- B Vodafone
- C Verizon
- D Digicel

Answer: B

Question 43

McAfee is a ----- ?

- A Anti-virus software
- B Programming language
- C Output device
- D Computer device

Answer: A

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Question 44

An Assertion (A) and a Reason (R) are given below.

Assertion (A): In India judiciary is independent of the executive.

Reason (R): Judiciary favors the government and helps in the implementation of its plans.

Choose the correct option.

- A A is true but R is false.
- B A is false but R is true.
- C Both A and R are true and R is the correct explanation of A.
- D Both A and R are false

Answer: A

Explanation:

In India, the judiciary is completely independent of the executive.

It has no interference in the affairs of the state nor can it be influenced by the government.

Question 45

The product of the ages of Swati and Aparna is 120. If thrice the age of Aparna is more than Swati's age by 2 years, find the age of Swati.

- A 18
- B 20
- C 24
- D 16

Answer: A

Explanation:

let age of Swati and Aparna are X and y respectively

now given that

$$XY=120\dots(1)$$

$$\text{and } 3y=X+2\dots(2)$$

from (1) and (2)

$$X(X+2)=360$$

$$xx+2x-360=0$$

$$xx+20x-18x-360=0$$

$$X(X+20)-18(X+20)=0$$

$$(X+20)(x-18)=0$$

$$X=18$$

Question 46

A wholesaler sold a water purifier at a loss of 40%. If the selling price has been increased by Its. 125, then wholesaler will get the profit of 10%. What was the cost price of the purifier?

- A Rs. 250
- B Rs. 225
- C Rs. 275
- D Rs. 300

Answer: A

Explanation:

Let the cost price (C.P.) of the purifier be Rs. x .

Selling price (S.P.) of the purifier = $x - (40\% \text{ of } x) = 0.6x$ (S.P. = C.P. - Loss)

If S.P. is increased by Rs. 125

Profit = 10% of $x = 0.1x$

S.P. of the purifier = $x + 0.1x = 1.1x$ (S.P. = C.P. + Profit)

$$\Rightarrow 0.6x + 125 = 1.1x$$

$$\Rightarrow 0.5x = 125$$

$$\Rightarrow x = 125/0.5 = \text{Rs. } 250$$

\therefore C.P. of the purifier = Rs. 250

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Question 47

If IRON is written as GOKI, then KNIFE may be written as

- A IKA EY
- B IEKAY
- C IKEAY
- D IAKEY

Answer: C

Explanation:

The followed pattern is:

I	R	O	N
-2	-3	-4	-5
G	O	K	I

and,

K	N	I	F	E
-2	-3	-4	-5	-6
I	K	E	A	Y

Hence, KNIFE will be written as IKEAY.

Question 48

Which tennis player has been awarded the Padma Bhushan award 2016?

- A Sania Mirza
- B Leander Paes
- C Mahesh Bhupathi
- D Rohan Bopanna

Answer: A

Question 49

What does ATM stand for?

- A Any Time Money
- B Automated Teller Machine
- C Automatic Talking Media
- D Analog Time Machine

Answer: B

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Question 50

When Vijay sells 12 pens, he gains the selling price of 6 pens. Calculate his % profit?

- A 15%
- B 50%
- C 18%
- D 12%

Answer: B

Explanation:

Let 1 pen costs 1 rupee then

Profit (P) =6

S.P.=12

So, C.P.=6

$P\% = (6 \times 100) / 12$

P%=50

Question 51

To which dynasty did the famous patron of literature king Bhoja belong?

- A Chalukya
- B Chola
- C Paramara
- D Pala

Answer: C

Question 52

Based on the analogy given, find the missing word from the given options.
Mother : Child : : Cloud : ?

- A Rain
- B Thunder
- C Water
- D Weather

Answer: A

Explanation:

A child is given birth by a mother. Similarly, rain is caused by the cloud.

Hence, 'Rain' is the correct answer.

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Question 53

If the standard deviation of a population is 7, what would be the population variance?

- A 14
- B 21
- C 49
- D 28

Answer: C

Explanation:

$$Var = SD^2$$

$$= 7^2$$

$$= 49$$

Instructions

Read the following Passage and answer the questions based on it.

There are six members in a family. One couple has parents and their children in the family. Arjun is the son of Raju and Elamathi is the daughter of Arjun. Divya is the daughter of Rani who is the mother of Elamathi and Banu is the mother of Arjun.

Question 54

How many female members in the family?

- A 2
- B 3
- C 4
- D Cannot be determined

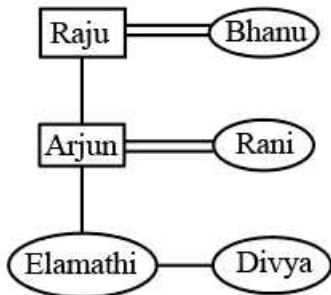
Answer: C

Explanation:

Consider the following symbols to draw the family tree:

Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation

The family tree is as follows:



Hence, there are 4 female members in the family.

Question 55

Which of the following pairs is the parents of the children?

- A Raju & Banu
- B Arjun & Banu
- C Raju & Rani
- D Arjun & Rani

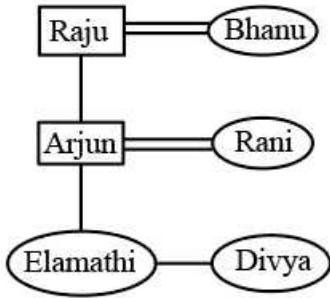
Answer: D

Explanation:

Consider the following symbols to draw the family tree:

Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation

The family tree is as follows:



As per the above diagram, Arjun & Rani are the parents of the children (i.e., Elamathi and Divya).

Note: Since, we don't know any other child of Raju besides Arjun, we can't consider him as 'children'.

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Question 56

What relationship to Divya and Elarnathi bear to each other respectively?

- A Sisters
- B Mother & Daughter
- C Grandmother & Granddaughter
- D Cannot be determined

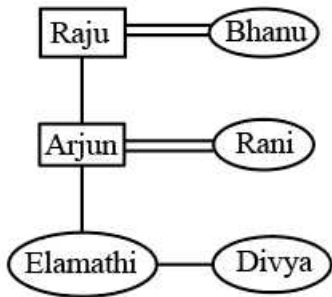
Answer: A

Explanation:

Consider the following symbols to draw the family tree:

Symbol in Diagram	Meaning
○	Female
□	Male
══	Married Couple
—	Siblings
	Difference of A Generation

The family tree is as follows:



Hence, Divya and Elamathi are sisters.

Instructions

For the following questions answer them individually

Question 57

A sum of Rs. 2000 at 40% per annum compounded annually. Calculate the interest for the third year at compound interest.

- A 1500
- B 1600
- C 1568
- D 1750

Answer: C

Explanation:

When a sum of amount is compounded annually, then after each interest which is gained on the amount is added with the principal amount and then the next year's principal is generated, and then on the second year the interest is calculated on the basis of the new principal.

Explanation:

so in order to calculate the interest of the amount Rs 2000/- on third year we will do the following:-

$$\text{interest 1st year} = \frac{2000 \times 40}{100} = 800$$

new principal = 2800

$$\text{interest on 2nd year} = \frac{2800 \times 40}{100} = 1120$$

new principal = 3920

$$\text{interest on 3rd year} = \frac{3920 \times 40}{100} = 1568$$

Question 58

Who received the Man Booker Prize in 2015 for his novel 'A brief history of seven killings'?

- A Marlon James
- B Richard Flanagan
- C Arvind Adiaa
- D E.O.Wilson

Answer: A

Explanation:

Jamaican author Marlon James has **won the Man Booker Prize** for his novel inspired by the attempted assassination of Bob Marley in the 1970s. Michael Wood, chair of the judges, described A **Brief History of Seven Killings** as the "most exciting" **book** on the **shortlist**

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Instructions

The following questions are based on the information given below:

An advertising agency finds that, of its 170 clients, 115 read Indian Express, 110 read The Hindu and 130 read Times of India. Also 85 read Indian Express and Times of India, 75 read Indian Express and The Hindu, 95 read The Hindu and Times of India and 70 read all the three.

Question 59

How many read only The Hindu?

- A 5
- B 10
- C 15
- D 35

Answer: B

Explanation:

Total Clients: 170

Clients who read Indian Express: 115;

Clients who read The Hindu: 110;

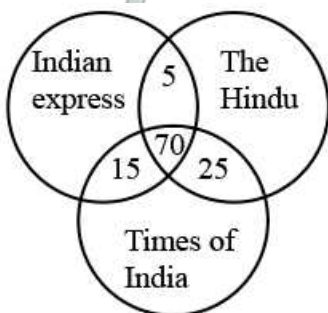
Clients who read Times of India: 130;

Clients who read two common papers:

- 1) Indian Express + Times of India = 85;
- 2) Indian Express + The Hindu = 75;
- 3) The Hindu + Times of India = 95;

Clients who read all three papers = 70

- 1) Clients who read only Indian Express and Times of India = $85 - 70 = 15$
- 2) Clients who read only Indian Express and The Hindu = $75 - 70 = 5$
- 3) Clients who read only The Hindu and Times of India = $95 - 70 = 25$

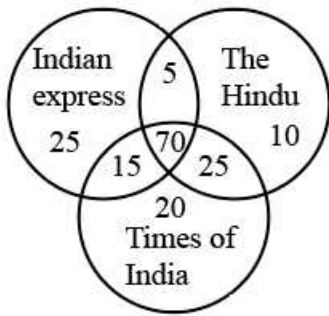


Now,

The clients who read only Indian Express = $115 - (5 + 70 + 15) = 25$

The clients who read only The Hindu = $110 - (5 + 70 + 25) = 10$

The clients who read only Times of India = $130 - (15 + 70 + 25) = 20$



Hence, 10 clients read only The Hindu.

Question 60

How many read Indian Express and Times of India but not The Hindu?

- A 10
- B 20
- C 15
- D 30

Answer: C

Explanation:

Total Clients: 170

Clients who read Indian Express: 115;

Clients who read The Hindu: 110;

Clients who read Times of India: 130;

Clients who read two common papers:

1) Indian Express + Times of India = 85;

2) Indian Express + The Hindu = 75;

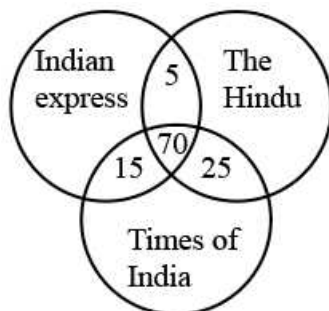
3) The Hindu + Times of India = 95;

Clients who read all three papers = 70

1) Clients who read only Indian Express and Times of India = $85 - 70 = 15$

2) Clients who read only Indian Express and The Hindu = $75 - 70 = 5$

3) Clients who read only The Hindu and Times of India = $95 - 70 = 25$

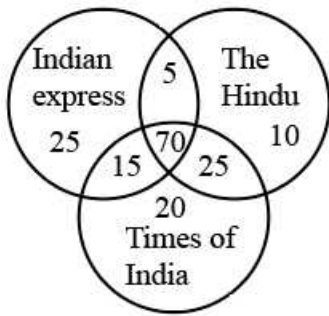


Now,

The clients who read only Indian Express = $115 - (5 + 70 + 15) = 25$

The clients who read only The Hindu = $110 - (5 + 70 + 25) = 10$

The clients who read only Times of India = $130 - (15 + 70 + 25) = 20$



Hence, 15 clients read only Indian Express and Times of India but not The Hindu.

15

Question 61

How many read only Indian Express?

- A 15
- B 25
- C 5
- D 10

Answer: B

Explanation:

Total Clients: 170

Clients who read Indian Express: 115;

Clients who read The Hindu: 110;

Clients who read Times of India: 130;

Clients who read two common papers:

1) Indian Express + Times of India = 85;

2) Indian Express + The Hindu = 75;

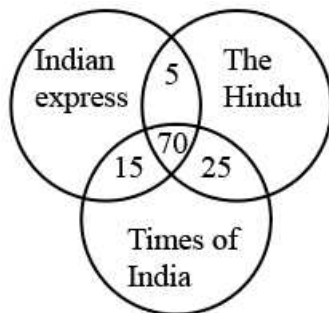
3) The Hindu + Times of India = 95;

Clients who read all three papers = 70

1) Clients who read only Indian Express and Times of India = $85 - 70 = 15$

2) Clients who read only Indian Express and The Hindu = $75 - 70 = 5$

3) Clients who read only The Hindu and Times of India = $95 - 70 = 25$

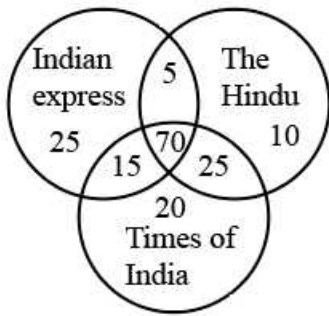


Now,

The clients who read only Indian Express = $115 - (5 + 70 + 15) = 25$

The clients who read only The Hindu = $110 - (5 + 70 + 25) = 10$

The clients who read only Times of India = $130 - (15 + 70 + 25) = 20$



Hence, 25 clients read only Indian Express.

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Instructions

For the following questions answer them individually

Question 62

For what value of C_2 , the system of equation $6x+2y=2$ & $3x+y = C_2$ will be coincident?

- A 4
- B 0
- C 2
- D 1

Answer: D

Explanation:

We know that,

Two lines $ax + by = c$ & $px + qy = r$ are coincident if $(a/p) = (b/q) = (c/r)$.

⇒ For the given lines to be coincident,

$$(6/3) = (2/1) = (2/C_2)$$

$$\Rightarrow C_2 = 2/2 = 1$$

$$\therefore C_2 = 1$$

Question 63

What is the increase in the number of workdays under the rural job guarantee scheme (MNREGA) in drought-affected areas?

- A 10
- B 25
- C 40
- D 50

Answer: D

Explanation:

Some of the states are **affected** by **drought**. "The ministry has decided that the **number of workdays under the rural job guarantee scheme** could be **increased** from 100 to 150 in **drought-affected areas**," Rural Development Minister Chaudhary Birender Singh told PTI

Question 64

By dividing 14528 by a certain number, Suresh gets 83 as quotient and 3 as remainder. What is the divisor?

- A 165
- B 185
- C 195
- D 175

Answer: D

Explanation:

We know that,

$$\text{Dividend} = \text{Divisor} \times \text{Quotient} + \text{Remainder}$$

$$\Rightarrow 14528 = \text{Divisor} \times 83 + 3$$

$$\Rightarrow 14528 - 3 = \text{Divisor} \times 83$$

$$\Rightarrow 14525/83 = \text{Divisor}$$

$$\Rightarrow \text{Divisor} = 175$$

$$\therefore \text{Divisor} = 175$$

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Instructions

Read the following table carefully and answer the questions given below:

The percentage change in sales of six departmental stores from 2010 to 2012 is shown in the following table:

Store	Percentage Change	
	From 2010 to 2011	From 2011 to 2012
P	20	-20
Q	-20	9
R	5	12
S	-7	-15
T	17	-8
U	21	9

Question 65

Sales in store P amounted to Rs. 80 lakhs in 2010. What was the sales amount of the same store in 2012?

- A 76.8 lakhs
- B 78.6 lakhs
- C 80 lakhs
- D 74 lakhs

Answer: A

Explanation:

Increase of sales in store P in 2011 = 20% of 80 lakhs = $(20/100) \times 8000000 = \text{Rs. } 16,00,000$

\Rightarrow Sales in store P at the end of 2011 = $8000000 + 1600000 = \text{Rs. } 96,00,000$

Decrease of sales in store P in 2012 = 20% of 9600000 = $(20/100) \times 9600000 = \text{Rs. } 19,20,000$

\Rightarrow Sales in store P at the end of 2012 = $9600000 - 1920000 = \text{Rs. } 76,80,000 = \text{Rs. } 76.8 \text{ lakhs}$

∴ The sales amount of store P in 2012 = Rs. 76.8 lakhs

Question 66

In store T the sales for 2011 amounted to about what percentage of the sales for 2012?

- A 113
- B 109
- C 105
- D 101

Answer: B

Explanation:

Percentage of sales amounted in store T for 2011 = $100 + 17 = 117$

Percentage of sales amounted in store T for 2012 = $117 - 0.08 \times 117 = 107.64$

∴ store T the sales for 2011 amounted to percentage of the sales for 2012 = $117/107.64 = 108.69\%$

Question 67

In 2012 which of the stores had greater sales than any other stores?

- A R
- B P
- C T
- D Q

Answer: D

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Instructions

For the following questions answer them individually

Question 68

Sunil and Gopal are partners in a business. Sunil invests Rs. 20,000 for 9 months and Gopal invests Rs. 30,000 for 12 months. Find the share of Sunil from the total profit of Rs. 60,000.

- A Rs. 15000
- B Rs. 18000
- C Rs. 25000
- D Rs. 20000

Answer: D

Explanation:

Time period for which Sunil invested money, $t_1 = 9$ months

Time period for which Gopal invested money, $t_2 = 12$ months

Amount invested by Sunil, $I_1 = \text{Rs. } 20,000$

Amount invested by Gopal, $I_2 = \text{Rs. } 30,000$

Profit = P = Rs. 60,000

Share of Sunil = $(P \times I_1 \times t_1) / (I_1 t_1 + I_2 t_2) = (60000 \times 20000 \times 9) / (20000 \times 9 + 30000 \times 12) = \text{Rs. } 20,000$

\therefore Share of Sunil = Rs. 20,000

Question 69

The mean of a distribution is 11 and the standard deviation is 5. What is the value of the coefficient variation?

- A 45.45%
- B 35.35%
- C 25.25%
- D 55.55%

Answer: A

Explanation:

We know that,

Coefficient of variation = $(\text{Standard deviation} / \text{Mean}) \times 100$

\Rightarrow Coefficient of variation = $(5/11) \times 100 = 45.45\%$

\therefore Coefficient of variation = 45.45%

Question 70

The mean of 14 observations is 11. One more observation is included and the new mean becomes 12. The 15th observation is

- A 20
- B 24
- C 26
- D 28

Answer: C

Explanation:

The mean of 14 observations = 11

\Rightarrow Sum of 14 observations = $11 \times 14 = 154$

Let the 15th observation be 'x'.

$\Rightarrow (154 + x) / 15 = 12$

$\Rightarrow 154 + x = 12 \times 15 = 180$

$\Rightarrow x = 180 - 154 = 26$

\therefore The 15th observation = 26

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Question 71

Five women can do a work in thirty six days. If the ratio between the capacity of a man and a woman is 3:1, then find how many days it will take 5 men to complete the same work?

- A 12 days
- B 15 days

C 18 days

D 108 days

Answer: A

Explanation:

Time taken by 5 women to do a work = 36 days

Time taken by 1 women to do the same work = $36 \times 5 = 180$ days

According to the given information,

Man/Woman = 3 : 1

Man = $(1/3) \times$ Woman

\Rightarrow Time taken by 1 men to complete the same work = $1/3 \times 180$

\therefore Time taken by 5 men to complete the same work = $(1/5) \times 1/3 \times 180 = 12$ days

Question 72

Who conferred the title of 'Gurudeiz' on Rabindranath Tagore?

A Mahatma Gandhi

B Pandit Nehru

C Lala Lajpat Rai

D Bal Gangadhar Tilak

Answer: A

Question 73

If NCLAGJ stands for PENCIL, then AMJMSP stands for

A ERASER

B PAPERS

C KOLOUR

D COLOUR

Answer: D

Explanation:

The logic here is as follows,

$N + 2 = P$

$C + 2 = E$

$L + 2 = N$

$A + 2 = C$

$G + 2 = I$

$J + 2 = L$

Similarly,

$A + 2 = C$

$M + 2 = O$

$J + 2 = L$

$M + 2 = O$

$$S + 2 = U$$

$$P + 2 = R$$

Thus AMJMSP is coded as COLOUR.

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Question 74

If $(\sin A + \cos A) / (\sin A - \cos A) = 5/4$, the value of $(\tan 2A + 1) / (\tan 2A - 1) = ?$

A 41/40

B 12/13

C 40/41

D 3/5

Answer: E

Question 75

If 15 persons can do a job in 30 days, then 30 persons with twice the efficiency can do the same job in how many days?

A 7

B 3.5

C 5

D 7.5

Answer: D

Explanation:

Time taken by 15 persons to do a job = 30 days

⇒ Time taken by 1 person to do a job = $30 \times 15 = 450$ days

⇒ Time taken by 1 person with twice the efficiency = $450/2 = 225$ days

⇒ Time taken by 30 persons with twice the efficiency = $225/30 = 7.5$ days

∴ Time taken by 30 persons with twice the efficiency = 7.5 days

Question 76

If two complementary angles are in the ratio of 2:3. find the ratio of square of smaller angle to square of greater

A 3:2

B 9:11

C 4:5

D 4:9

Answer: D

Explanation:

Let the two complementary angles be $2x$ and $3x$.

We know that the sum of complementary angles = 90°

$$\Rightarrow 2x + 3x = 90^\circ$$

$$\Rightarrow x = 90^\circ/5 = 18^\circ$$

$$\text{The smaller angle} = 2 \times 18 = 36^\circ$$

$$\text{The greater angle} = 3 \times 18 = 54^\circ$$

$$\text{The ratio of the square of the smaller angle to the square of the greater angle} = 36^2 : 54^2 = 4 : 9$$

$$\therefore \text{The ratio of the square of the smaller angle to the square of the greater angle} = 4 : 9$$

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Question 77

What denotes offering several products for sale as one combined product?

- A Advertisement
- B Product mix
- C Product bundling
- D Differentiation

Answer: C

Explanation:

In marketing, product bundling is offering several products for sale as one combined product. It is a common feature in many imperfectly competitive product markets. Industries engaged in the practice include telecommunications, financial services, health care, and information

Question 78

Which was the capital of the first Sri Lankan kingdom?

- A Jaffna
- B Polotmaruwa
- C Anuradhapura
- D Kandy

Answer: C

Question 79

$\sin^6 A + \cos^6 A - 1$ is equal to

- A $-3 \sin^2 A \cos^2 A$
- B $1 - 3 \sin A \cos A$
- C $1 + 3 \sin^2 A \cos^2 A$
- D 0

Answer: A

Explanation:

$$\sin^6 A + \cos^6 A - 1$$

$$= (\sin^2 A)^3 + (\cos^2 A)^3 - 1$$

$$= (\sin^2 A + \cos^2 A)^3 - 3\sin^2 A \cos^2 A (\sin^2 A + \cos^2 A) - 1 \quad (\because a^3 + b^3 = (a + b)^3 - 3ab(a + b))$$

$$= (1)^3 - 3\sin^2 A \cos^2 A \times (1) - 1 \quad (\because \sin^2 x + \cos^2 x = 1)$$

$$= -3\sin^2 A \cos^2 A$$

$$\therefore \sin^6 A + \cos^6 A - 1 = -3\sin^2 A \cos^2 A$$

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Question 80

In the following expression ' α ' stands for '>'; ' β ' stands for '<'; ' γ ' stands for 'not greater than'; ' δ ' stands for 'not less than'; and ' μ ' stands for '='.

If $3C \delta 2A$ and $B \alpha C$, then which of the following statement is true?

A $3B\mu 2A$

B $B\mu A$

C $3B\alpha 2A$

D $2A\alpha 3B$

Answer: C

Question 81

Which of the following is a bad conductor of heat?

A Wood

B Diamond

C Water

D Mica

Answer: A

Question 82

Choose the pair which is related in the same way as the words in the first pair from the given choices Mosquito : Malaria :: :

A Housefly : Food

B Road : Accident

C Soil : Erosion

D Tobacco : Cancer

Answer: D

Explanation:

Malaria is a vector - Borne disease caused by mosquitoes. Similarly Tobacco is the cause of cancer. The other option does not show cause - effect relationship.

Question 83

Where will the 2022 Commonwealth Games be played?

- A Glasgow
- B Birmingham, United Kingdom
- C Gold Coast
- D New Delhi

Answer: B

Question 84

Rearrange the jumbled up letters in their natural sequence and find the odd one out.

- A LAFC
- B UKCGIDLN
- C RILNIGHE
- D BCU

Answer: C

Explanation:

After rearranging the letters we get the following words,

- A) LAFC → CALF
- B) UKCGIDLN → DUCKLING
- C) RILNIGHE → No word can be formed.
- D) BCU → CUB

Thus word RILNIGHE is the odd one.

Question 85

Sita starts to calculate sum of all odd natural numbers less than 72. What result does she get'?

- A 1196
- B 1296
- C 1331
- D 1276

Answer: B

Explanation:

Odd natural numbers less than 72 = 1, 3, 5, 7, 9.....71

Here, a = 1 and common difference = 2

Number of terms = n

And nth term is 71.

So,

$$71 = a + (n - 1)d$$

$$\Rightarrow 71 = 1 + (n - 1)2$$

$$\Rightarrow 71 - 1 = 2n - 2$$

$$\Rightarrow 70 + 2 = 2n$$

$$\Rightarrow n = 72/2$$

$$\Rightarrow n = 36$$

Now, sum of n number of terms = $S_n = n/2\{2a + (n - 1)d\}$

$$S_{36} = 36/2 \times (2 \times 1 + (36 - 1)2)$$

$$= 18 \times (2 + (35 \times 2))$$

$$= 18 \times 72$$

$$1296$$

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Question 86

On an average how many times does lightning strike the Earth?

- A 100 times per second
- B 100 times per day
- C 1000 times per day
- D 100 times per hour

Answer: A

Question 87

An Assertion (A) and a Reason (R) are given below.

Assertion (A): We feel comfortable in hot and humid climate.

Reason (R): Sweat evaporates faster in humid climate.

Choose the correct option.

- A A is true but R is false.
- B A is false but R is true.
- C Both A and R are true and R is the correct explanation of A.
- D Both A and R are false

Answer: D

Explanation:

Generally hot and humid climate is not believed to be comfortable for the reason that sweat DOES NOT evaporate faster in humid climate and clings to the body.

Hence, both A and R are false.

Question 88

Rearrange the jumbled up letters in their natural sequence and find the odd one out.

- A UTNA
- B EINEC
- C OMEHRT

D ROBEHRT

Answer: D

Explanation:

After rearranging the letters we get the following words,

A) UTNA → AUNT

B) EINEC → NIECE

C) OMEHRT → MOTHER

D) ROBEHRT → BROTHER

Here only Brother is a male.

Thus word ROBEHRT is the odd one.

RRB Group-D Previous Papers

Question 89

Which is the form of market where there is lack of competition?

A Monopoly

B Oligopoly

C Perfect competition

D Marketisation

Answer: A

Question 90

One of four words is a class to which the other three belong. Identify the class.

A Hawaii

B Cuba

C Island

D Greenland

Answer: C

Explanation:

Hawaii, Cuba, and Greenland are all Islands.

Thus an Island is a class.

Question 91

Based on the analogy given, find the missing pair from the given options.

32 : 13 :: -----: -----

A 51 : 36

B 83 : 121

C 71 : 81

D 47 : 65

Answer: D

Explanation:

The pattern followed here is,

$$3^2 + 2^2 = 13;$$

Similarly,

$$4^2 + 7^2 = 65$$

Hence, 47 : 65 is the correct answer.

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Question 92

Find the LCM of 3.2, 2.72, 1.28 and 1.44

- A 24.48
- B 2448
- C 97.92
- D 979.20

Answer: D

Explanation:

To solve this type of problems we have to follow the below steps.

Step I: Convert each of the decimals to like decimals.

Step II: Remove the decimal point and find the least common multiple (LCM) as usual.

Step III: In the LCM, put the decimal point as there are a number of decimal places in the like decimals.

LCM of 3.2, 2.72, 1.28 and 1.44

Step I: Like decimals are 3.2, 2.72, 1.28 and 1.44

Step II: LCM of $32/10$, $272/100$, $128/100$ and $144/100$ = LCM(32, 272, 128, 144) = 97920

Step III: LCM of 3.2, 2.72, 1.28, 1.44 = 979.20

∴ LCM of 3.2, 2.72, 1.28, 1.44 = 979.20

Question 93

Which of the following is called 'The queen of Arabian sea'?

- A Mumbai
- B Thiruvananthapuram
- C Kochi
- D Surat

Answer: C

Question 94

What is the name of the castle that was built in honour of world renowned composer Richard Wagner?

- A Balmoral Castle

- B Neuschwanstein Castle
- C Convey castle
- D Kronborg

Answer: B

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Question 95

Select the correct set of symbols which will fit in the given equation?

$$5 \ 0 \ 3 \ 5 = 20$$

- A +, -, +
- B ×, +, ×
- C -, +, ×
- D ×, ×, ×

Answer: C

Explanation:

Let's check each option:

$$1) +, -, + \rightarrow 5 + 0 - 3 + 5 = 10 - 3 = 7$$

$$2) \times, +, \times \rightarrow 5 \times 0 + 3 \times 5 = 0 + 15 = 15$$

$$3) -, +, \times \rightarrow 5 - 0 + 3 \times 5 = 5 - 0 + 15 = 20$$

$$4) \times, \times, \times \rightarrow 5 \times 0 \times 3 \times 5 = 0$$

Thus the correct set is (-, +, ×).

Question 96

Evaporation of water from leaves of a plant is called

- A Transpiration
- B Respiration
- C Perspiration
- D Evaporation

Answer: A

Question 97

How do you know Yarlung Tsangpo better?

- A Ganges
- B Brahmaputra
- C Mahanadi
- D Sutlej

Answer: B

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Question 98

The famous Sanchi Stupa was commissioned by

- A Bindusara
- B Ashoka
- C Chandragupta Maurya
- D Kanishka

Answer: B

Question 99

How long will Ramesh take to run round a square park of edge 50 metres, if he runs at the rate of 18 km/hr?

- A 40 sec
- B 20 sec
- C 80 sec
- D 160 sec

Answer: A

Explanation:

We know that,

Perimeter of a square = $4 \times S$

Where,

S = Side of the square

Perimeter of the square park = $4 \times 50 = 200$ m

\therefore Ramesh runs round the square park, he should cover the perimeter of the square park to complete one round.

Speed of Ramesh = 18 km/hr = $18 \times \frac{5}{18} = 5$ m/sec ($\because 1$ km/hr = $\frac{5}{18}$ m/sec)

Time taken by Ramesh to run round the square park = $200/5 = 40$ sec (\because Speed = Distance/Time)

\therefore Time taken by Ramesh to run round the square park = 40 sec

Question 100

Ramesh sold a phone at a loss of 5%. Had he sold it for Rs. 200 more, he would have gained 15%. To gain 25%, he should sell it for :

- A Rs. 1175
- B Rs. 1150
- C Rs. 1225
- D Rs. 1250

Answer: D

Explanation:

Let the cost price (C.P.) of the phone be Rs. x.

Selling price (S.P.) of the phone = $x - (5\% \text{ of } x) = x - 0.05x = 0.95x$ (\because S.P. = C.P. - Loss)

If S.P. is Rs. 200 more: -

Gain% = 15%

\Rightarrow Gain = 15% of $x = 0.15x$

S.P. of the phone = $0.15x + 200$

$\Rightarrow x + 0.15x = 0.95x + 200$ (\because S.P. = C.P. + Gain)

$\Rightarrow 1.15x = 0.95x + 200$

$\Rightarrow 0.2x = 200$

$\Rightarrow x = \text{Rs. } 1000$

If gain is 25%: -

Cost price (C.P.) of the phone be Rs. 1000

\Rightarrow S.P. of the phone = $(1000 + 25\% \text{ of } 1000) = 1000 + 250 = \text{Rs. } 1250$

\therefore To gain 25%, he should sell for Rs. 1250.

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