



## RRB NTPC 2 April 2016 (3rd Shift)

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# RRB NTPC 2 April 2016 - Shift 3

## Instructions

Use the following passage for the questions based on it.

Comprehension:

Rahul and Kusum are good in Hindi and Maths. Sameer and Rahul are good in Hindi and Biology. Gita and Kusum are good in Marathi and Maths. Sameer, Gita and Mihir are good in History and Biology.

## Question 1

Who is good in both Biology and Marathi?

- A Gita
- B Kusum
- C Sameer
- D Mihir

Answer: A

Explanation:

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM	KUSUM RAHUL			

RAHUL AND KUSUM ARE GOOD IN HINDI AND MATHS.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL	SAMEER RAHUL		

SAMEER AND RAHUL ARE GOOD IN HINDI AND BIOLOGY.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL GITA	SAMEER RAHUL		GITA KUSUM

GITA AND KUSUM ARE GOOD IN MARATHI AND MATHS.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL GITA	SAMEER RAHUL GITA MIHIR	SAMEER GITA MIHIR	GITA KUSUM

SAMEER, GITA AND MIHIR ARE GOOD IN HISTORY AND BIOLOGY.

So, GITA is good in MARATHI AND BIOLOGY.

A is correct choice.

## RRB NTPC Previous Papers (Download PDF)

### Question 2

Who is good in only Hindi, Marathi and Maths?

- A Sameer
- B Rahul
- C Kusum
- D Gita

Answer: C

Explanation:

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM	KUSUM RAHUL			

RAHUL AND KUSUM ARE GOOD IN HINDI AND MATHS.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL	SAMEER RAHUL		

SAMEER AND RAHUL ARE GOOD IN HINDI AND BIOLOGY.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL GITA	SAMEER RAHUL		GITA KUSUM

GITA AND KUSUM ARE GOOD IN MARATHI AND MATHS.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL GITA	SAMEER RAHUL GITA MIHIR	SAMEER GITA MIHIR	GITA KUSUM

SAMEER, GITA AND MIHIR ARE GOOD IN HISTORY AND BIOLOGY.

KUSUM is good only in MARATHI, MATHS AND HINDI.

C is correct choice.

### Question 3

Who is good in Maths, Biology and Hindi?

- A Gita
- B Rahul
- C Sameer
- D Mihir



**Answer: B**

**Explanation:**

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM	KUSUM RAHUL			

RAHUL AND KUSUM ARE GOOD IN HINDI AND MATHS.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL	SAMEER RAHUL		

SAMEER AND RAHUL ARE GOOD IN HINDI AND BIOLOGY.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL GITA	SAMEER RAHUL		GITA KUSUM

GITA AND KUSUM ARE GOOD IN MARATHI AND MATHS.

HINDI	MATHS	BIOLOGY	HISTORY	MARATHI
RAHUL KUSUM SAMEER	KUSUM RAHUL GITA	SAMEER RAHUL GITA MIHIR	SAMEER GITA MIHIR	GITA KUSUM

SAMEER, GITA AND MIHIR ARE GOOD IN HISTORY AND BIOLOGY.

Rahul is good at HINDI, MATHS AND BIOLOGY.

B is correct choice.

**Instructions**

For the following questions answer them individually

**Question 4**

Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

**Statement:** Hrithik in spite of his busy schedule, finds time to rest.

**Conclusions:**

- I. Hrithik is an organized person.
- II. Rest is the most important thing for a busy person.

- A Only conclusion I follows
- B Only conclusion II follows
- C Both I and II follow
- D Neither of them follows

**Answer:** D

**Explanation:**

An organized person has many activities other than time management.

So, we can't imply that Hrithik is organized person just because he is able to find out time to take rest inspite of his busy schedule.

So, Conclusion I can not be derive from the statement.

And also, it doesn't imply that rest leads you to be a organized person.

So, Conclusion II is not the right derivation of the given statement.

D is correct choice.

## RRB NTPC Free Mock Tests

### Question 5

Which among the following is true for the given numbers?

- A  $13/33 < 32/47 < 20/47 < 25/27$
- B  $13/33 < 20/47 < 25/27 < 32/47$
- C  $13/33 < 20/47 < 32/47 < 25/27$
- D  $20/47 < 13/33 < 32/47 < 25/27$

**Answer:** C

**Explanation:**

$25/27=0.92$ .

(Taking up to two decimal place)

$32/47=0.68$ .

$20/47=0.42$ .

and  $13/33=0.39$ .

So,  $13/33 < 20/47 < 32/47 < 25/27$ .

C is correct choice.

### Question 6

The colour of solid iodine is

- A White
- B Colorless
- C Purplish Grey to Black
- D Reddish Brown

**Answer:** C

**Question 7**

Find the LCM of  $25/7$ ,  $15/28$ ,  $20/21$ .

- A  $300/7$
- B 300
- C  $320/23$
- D 320

**Answer:** A

**Explanation:**

LCM of a fraction means

(LCM of numerator/HCF of denominator).

here,

$$25 = 5^2, 15 = 5 \times 3, 20 = 5 \times 2^2$$

$$\text{and } 21 = 3 \times 7, 28 = 7 \times 2^2$$

$$\text{So, LCM}(25, 15, 20) = 5 \times 3 \times 2^2 = 300$$

and

$$\text{HCF}(7, 21, 28) = 7.$$

So, required LCM =  $(300/7)$ .

A is correct choice.

## RRB JE Previous Papers ( Download Pdf)

**Question 8**

Who was the last emperor of the Mauryan Dynasty?

- A Chandragupta
- B Ashoka
- C Brihadratha
- D Shatadhanvan

**Answer:** C

**Question 9**

X is 5 ft tall and he notices that he casts a shadow that's 3 ft long. He then measures that the shadow cast by his school building is 30 ft long. How tall is the building?

- A 50 ft
- B 18 ft
- C 90 ft
- D 150 ft

**Answer:** A

**Explanation:**

Let say, the length of the building be  $x$  ft.

(Length of building/Shadow of the building) = (Height of boy/Shadow of the boy)

So,

$$\frac{x}{30} = \frac{5}{3}$$

$$x = \frac{5 \times 30}{3}$$

$$x = 50.$$

A is correct choice.

#### Question 10

3 chairs and 2 tables cost Rs. 700 and 5 chairs and 3 tables cost Rs. 1100. What is the cost of 1 chair and 2 tables?

A Rs. 350

B Rs. 400

C Rs. 500

D Rs. 550

**Answer: C**

#### Explanation:

Let say,

cost of a chair is  $c$  and cost of a table is  $t$ .

So, from first condition,

$$3c + 2t = 700 \dots\dots\dots(1)$$

and from second condition,

$$5c + 3t = 1100 \dots\dots\dots(2)$$

Now, multiply equation (1) by 3 :

$$9c + 6t = 2100 \dots\dots\dots(4)$$

and multiply equation (2) by 2:

$$10c + 6t = 2200 \dots\dots\dots(5)$$

Now, Subtract equation (5) and (4),

$$c = 100.$$

Put  $c=100$  in equation (1):

$$300 + 2t = 700$$

$$\text{or, } 2t = 400$$

$$\text{or, } t = 200.$$

So, cost of one chair and 2 table is

$$100 + 2 \times 200 = 500.$$

C is correct choice.

## RRB JE Free Mock Test

#### Question 11

The LCM of two numbers is 210. If their HCF is 35 and one of the numbers is 105, find the other number.

- A 35
- B 70
- C 105
- D 140

**Answer:** B

**Explanation:**

We know that multiplication of two numbers is equal to the multiplication of their LCM and HCF.

Here, LCM=210 and HCF=35 .

Let say ,another number is  $x$ .

$$\text{So, } 210 \times 35 = 105 \times x$$

$$\text{or, } x = (210 \times 35)/105 = 70$$

So, another number is 70.

B is correct choice.

**Question 12**

**Working alone, A can do a job in 15 days and B can do the same job in 18 days. In how many days will the job be completed if both work together?**

- A 10/3 days
- B 36/5 days
- C 5/36 days
- D 15 days
- E 90/11 days

**Answer:** E

**Explanation:**

A can do  $(1/15)$  part of job in 1 day.

and B can do  $(1/18)$  part of job in 1 day.

So, in 1 day they together can do

$$(1/15) + (1/18) = (6 + 5)/90 = 11/90$$

part of job.

So, they together can do full job in 90/11 days.

So, E is correct choice.

**Question 13**

**In 2015,....., a new species of the genus Homo was discovered in the Dinaledi Chamber of the Rising Star cave system, Cradle of Humankind, South Africa.**

- A Homo naledi
- B Homo erectus
- C Homo habilis



D Homo rudolfensis

**Answer: A**

**Explanation:**

Homo naledi is an extinct species of hominin, which anthropologists first described in September 2015 and have assigned to the genus Homo.

A is correct choice.

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**Question 14**

Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

**Statement: All hard-working people are successful. Conclusions:**

I. All successful people are hard-working.

II. Only hard work can guarantee success in life.

Decide the right option from below.

A Only conclusion I follows

B Only conclusion II follows

C Both I and II follow

D Neither of them follows

**Answer: D**

**Explanation:**

All hard working people are successful:

means that,

*Hard working people  $\in$  Successful*

It doesn't imply that only hard working people are successful because other activities can also leads you to success.

And it is also implies that people with other abilities can be the part of successful arena.

So, none of the conclusion is right .

So,D is correct choice.

**Question 15**

In a web browser, which of the following is used to save frequently visited websites?

A History

B Task Manager

C Favorites

D Save as

**Answer: C**

**Question 16**

The Khajuraho Group of Monuments is a UNESCO World Heritage Site located in

A Madhya Pradesh

- B Uttar Pradesh
- C Uttarakhand
- D Chattisgarh

Answer: A

## RRB Group-D Previous Papers

### Question 17

If '+' means  $\times$ , '-' means  $\div$ , ' $\times$ ' means  $+$  and ' $\div$ ' means  $-$ ; compute the value of the expression:  $45 - 9 + 4 \times 5$

- A 21
- B 25
- C 26
- D 23

Answer: B

### Explanation:

After rearrangement the equation would be,

$$45 \div 9 \times 4 + 5$$

$$= 5 \times 4 + 5$$

$$= 20 + 5.$$

$$= 25.$$

B is correct choice.

### Question 18

On which lake is the Golden Temple located?

- A Amrit Sarovar Lake
- B Golden Lake
- C Harike Lake
- D Sukhna Lake

Answer: A

### Question 19

If three numbers are in the ratio of 1:3:5 and their sum is 10,800. Find the largest of the three numbers.

- A 1200
- B 3600
- C 6000
- D 5400

Answer: C

**Explanation:**

Ratio of three numbers is 1:3:5.

Let say, numbers are  $x, 3x$  and  $5x$ .

$$\text{So, } x + 3x + 5x = 10800.$$

$$\text{or, } 9x = 10800$$

$$\text{or, } x = 1200.$$

So, numbers are 1200, 3600 and 6000.

So largest number is 6000.

C is correct choice.

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**Question 20**

If  $A = 1$  and  $PAT = 37$ , then  $PART =$

A 55

B 52

C 51

D 54

**Answer: A**

**Explanation:**

If we use English conversion table ,

$A=1, P=16, R=18$ , and  $T=20$ .

$$\text{So, } PAT = 16 + 1 + 20 = 37$$

$$\text{similarly, } PART = 16 + 1 + 18 + 20 = 55.$$

So, A is correct choice.

**Question 21**

A positive number exceed its positive square root by 30. Find the number.

A 16

B 36

C 25

D 49

**Answer: B**

**Explanation:**

According to the question,

$$(x - 30) = \sqrt{x} \text{ (where } x \text{ is the positive number).}$$

by taking square on both side,

$$(x - 30)^2 = (\sqrt{x})^2$$

$$\text{or, } (x^2 - 60x + 900) = x$$

$$\text{or, } (x^2 - 61x + 900) = 0$$

$$\text{or, } (x^2 - 25x - 36x + 900) = 0$$

$$\text{So, } (x - 25)(x - 36) = 0$$

$$\text{or, } x = 25 \text{ and } x = 36$$

$$\text{if } x = 25 \text{ then } (25 - 30) = -5$$

but  $\sqrt{25} = 5$  which signifies that -5 is not equal to 5.

So, 25 is not that number.

36 is the required number.

So, B is correct choice.

#### Question 22

A car travels at the speed of 50 km/hr for the first half of the journey and at the speed of 60 km/hr for the second half of the journey. What is the average speed of the car for the entire journey?

A 54.54 km/hr

B 36.36 km/hr

C 50.5 km/hr

D 45.45 km/hr

**Answer: A**

#### Explanation:

Let say, total distance of the journey is

$d$  km .

He travelled half of the journey with 50km/h and rest of the half with 60 km/h.

So, time taken by the first half of journey is

$$= (1/50) \times (d/2) \text{ hr} = (d/100) \text{ hr}.$$

and time taken by rest of the journey is

$$(1/60) \times (d/2) \text{ hr} = (d/120) \text{ hr}.$$

So, average speed of the journey

(Total distance travel/Total time taken).

So, Average speed

$$= (d) / ((d/100) + (d/120))$$

$$= d / ((3d + 2.5d) / 300).$$

$$= 300d / 5.5d$$

$$= 54.54$$

So A is correct choice.

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#### Question 23

In 2016, who has partnered with ISRO to use space technology for 'predictive policing'?

A Delhi Police

B Mumbai Police

C Chennai Metropolitan Police

D Kolkata Police

**Answer: A**

**Question 24**

**Which of the following technological inventions came first?**

A Telegraph

B Telescope

C Telephone

D Teletype

**Answer: B**

**Question 25**

**Rita introduced Seema as her mother's father's only son's daughter. How is Rita related to Seema?**

A Cousin

B Paternal Aunt

C Niece

D Maternal Aunt

**Answer: A**

**Explanation:**

Rita's Mother's Father means Rita's grandfather.

Her grandfather's only son's become her uncle .

His daughter will become cousin as in relationship.

So,A is correct choice.

## 10 RRB JE Mocks-Tests Rs.117

**Question 26**

**Which art form was Mrinalini Sarabhai associated with?**

A Pattachitra

B Tanjore Painting

C Bharatnatyam

D Madhubani Painting

**Answer: C**

**Question 27**

**Choose the pair which is related in the same way as the words in the first pair from the given choices.**

**INDIA : TIGER :: USA :**

- A UNICORN
- B BALD EAGLE
- C TURUL
- D DRUK

**Answer:** B

**Explanation:**

National Animal of INDIA is TIGER.

Similarly, National Symbol of USA is Bald Eagle.

B is correct choice.

**Question 28**

The dimensions of a luggage box are 80 cm, 60 cm and 40 cm. How many sq. cm of cloth is required to cover the box?

- A 10400 sq. cm
- B 20800 sq. cm
- C 20400 sq. cm
- D 10200 sq. cm

**Answer:** B

**Explanation:**

length = 80 cm

breadth = 60 cm

height = 40 cm

Now,

Total Surface Area =  $2(lb + bh + lh)$

=  $2(80 \times 60 + 60 \times 40 + 40 \times 80)$

=  $2(4800 + 2400 + 3200)$

=  $2 \times 10400$

=  $20800 \text{ cm}^2$

B is correct choice.

## RRB General Science Notes (Download Pdf)

**Question 29**

The sum of digits of a two-digit number is 10. When the digits are reversed, the number decreases by 54. Find the changed number.

- A 73
- B 28
- C 82
- D 37

**Answer:** B

**Explanation:**

Let say, the number is 'ab'.

So, the number is  $(10a+b)$ .

According to the question,

$$a + b = 10 \dots\dots\dots(1)$$

when digits are reversed, the number would become 'ba', which is  $(10b+a)$ .

$$\text{So, } 10b + a = 10a + b - 54.$$

$$\text{or, } 9a - 9b = 54.$$

$$\text{or, } a - b = 6 \dots\dots\dots(2)$$

Add (1) and (2) :

$$2a = 16.$$

$$a = 8.$$

$$\text{So, } b = 2.$$

Original number is 82.

So, the changed number is 28.

B is correct choice.

**Question 30**

The incomes of A and B are in the ratio of 3:2 and their expenditures are Rs. 14,000 and Rs. 10,000 respectively. If A saves Rs. 4,000. then B's savings will be:

- A Rs. 4000
- B Rs. 2000
- C Rs. 3000
- D Rs. 5000

**Answer:** B

**Explanation:**

Let say, income of A and B are 3k and 2k respectively.

A's expenditure 14000 Rs.

So, his savings  $= (3k - 14000)$  Rs.

$$\text{So, } 3k - 14000 = 4000.$$

$$\text{or, } 3k = 18000.$$

$$\text{or, } k = 6000.$$

$$\text{So, B's income} = 2 \times 6000 = 12000.$$

$$\text{So, B's savings} = (12000 - 10000) = 2000 \text{ Rs.}$$

B is correct choice.

**Question 31**

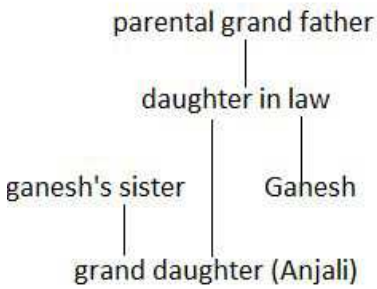
Ganesh said, Anjali is my paternal grandfather's only daughter-in-law's only granddaughter". Ganesh is single and has only one sibling, i.e., an elder sister. How is Ganesh related to Anjali?

- A Maternal Uncle
- B Paternal Uncle

- C Cousin
- D Nephew

Answer: A

Explanation:



Ganesh is single and his only sibling is his sister.

So, Anjali is Ganesh's sister's daughter.

So, Ganesh is her Maternal Uncle.

A is correct choice.

### RRB GK Material (Download Pdf)

#### Question 32

Which of the following type of rays does NOT penetrate Earth's atmosphere?

- A Visible Light
- B X-Rays
- C Ultraviolet Rays
- D Radio Waves

Answer: B

#### Question 33

Simplify:  $(\frac{4}{9} + \frac{3}{5}) / (\frac{5}{9} + \frac{2}{5})$

- A 47/48
- B 47/43
- C 43/47
- D 41/47

Answer: B

Explanation:

$$\frac{4}{9} + \frac{3}{5} = \frac{(20+27)}{45} = \frac{47}{45} \dots\dots(1)$$

and

$$\frac{5}{9} + \frac{2}{5} = \frac{(25+18)}{45} = \frac{43}{45} \dots\dots(2)$$

So, (1)/(2):

$$\frac{47}{45} \div \frac{43}{45} = \frac{47}{45} \times \frac{45}{43} = \frac{47}{43}$$



B is correct choice.

**Question 34**

The first captain of the Indian Cricket team for One Day International was -

- A Alit Wadekar
- B Sunil Gavaskar
- C Kapil Dev
- D C K Nayudu

Answer: A

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**Question 35**

The principle of regarding the beliefs, values, and practices of a culture from the viewpoint of that culture itself is called -

- A Cultural Functionalism
- B Cultural Relativism
- C Cultural Independence
- D Cultural Interdependence

Answer: B

**Question 36**

Rearrange the following jumbled sentences to make a meaningful one:

**P:** are inhibiting progress

**Q:** they look for creative

**R:** rather than the conventional solution of outsourcing

**S:** solutions to problems that

The proper sequence should be:

- A SRQP
- B QSPR
- C PQRS
- D QRPS

Answer: B

**Explanation:**

Proper arrangement should be :

*they look for creative* → *solutions to problems that* →

*are inhibiting progress* → *rather than the conventional solution of outsourcing.*

So, QSPR is right sequence.

B is correct choice.

**Question 37**

P is twice as efficient as Q. Q takes 12 days to complete a job. If both of them work together, how much time will they take to complete the job?

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

**Answer:** C

**Explanation:**

P is twice efficient than Q.

It means that Q take 2 times of P's time to complete the job.

So, P will take  $\left(\frac{12}{2}\right) = 6$  days to complete the job.

So, P can do  $\frac{1}{6}$  part of the job in 1 day and Q can do  $\frac{1}{12}$  part of the job in 1 day.

So, they together can do  $\left(\frac{1}{6} + \frac{1}{12}\right) = \frac{3}{12} = \frac{1}{4}$  part of job in 1 day.

So, they together will take 4 days to complete the job.

C is correct choice.

**RRB NTPC Previous Papers (Download PDF)**

**Question 38**

In January 2016, Indian Defence Minister hoisted the world's largest tri-colour on the tallest flag-post at

- A New Delhi
- B Jaipur
- C Ranchi
- D Leh

**Answer:** C

**Question 39**

What is the median of the following list of numbers: 5, 3, 6, 9, 11, 19, and 1?

- A 5
- B 6
- C 9
- D 11

**Answer:** B

**Explanation:**

If there are odd number of numbers present in the sequence then median of

the sequence would be the number which is in the middle position of the sequence. (After arranging the sequence in ascending order)

So, after arranging the sequence in ascending order : (1,3,5,6,9,11,19) would be the sequence.

So,6 is the middle number of the sequence.

B is the correct choice.

**Question 40**

A sold a toy to B at a profit of 15%. Later on, B sold it back to A at a profit of 20%, thereby gaining Rs. 552. How much did A pay for the toy originally?

- A Rs. 2400
- B Rs. 2560
- C Rs. 2760
- D Rs. 2800

**Answer:** A

**Explanation:**

Let say, A paid  $x$  Rs. to buy the toy originally.

A sold it to B at 15% profit .i.e B's cost price =  $1.15x$ .

B sold it again to A at 20% profit .i.e B's selling price =  $1.15x \times 1.2 = 1.38x$ .

So,He gained  $1.38x - 1.15x = .23x$ .

So, according to the question,

$$0.23x = 552.$$

$$\text{or, } x = \frac{552}{0.23} = 2400.$$

So, A paid 2400 Rs. originally.

A is correct choice.

## RRB NTPC Free Mock Tests

**Question 41**

Which of the following is NOT a Greenhouse Gas?

- A Nitrous oxide
- B Methane
- C Sulphur Hexafluoride
- D Copper Dioxide

**Answer:** D

**Question 42**

On which festival did the Jallianwala Baug Massacre take place?

- A Baisakhi
- B Guru Nanak Jayanti
- C Diwali
- D Holi

**Answer:** A

**Question 43**

The 2016 World Economic Forum Annual Meeting took place in

- A Germany
- B Switzerland
- C France
- D United Kingdom

**Answer: B**

**RRB JE Previous Papers ( Download Pdf)**

**Question 44**

Which of the following is NOT a computer virus?

- A AIDS
- B Anna Kournikova
- C Brain
- D Don

**Answer: D**

**Question 45**

In the Republic of India, the administrative head of a Union Territory is

- A Lieutenant Governor
- B Governor
- C President
- D Prime Minister

**Answer: A**

**Question 46**

The Jayakwadi Project, which is one of the largest irrigation projects is on the river

- A Godavari
- B Narmada
- C Krishna
- D Tapi

**Answer: A**

**Question 47**

Which of the following is the largest glacier in India?

- A Gangotri Glacier
- B Drang Drung Glacier
- C Siachen Glacier
- D Shafat Glacier

**Answer: C**

**Question 48**

Which was the first women's sport to be introduced in the Olympics?

- A Gymnastics
- B Volleyball
- C Golf
- D Badminton

**Answer: C**

**Question 49**

A wire when bent in the form of a square encloses an area of 484 sq. cm. If the same wire is bent in the form of a circle, what is the area enclosed by it?

- A 264 sq. cm
- B 616 sq. cm
- C 488 sq. cm
- D 492 sq. cm

**Answer: B**

**Explanation:**

Let say, radius of the circle is  $r$ .

Area of the square = 484 sq. cm.

So, Side of the square  $\sqrt{484} = 22$  cm.

same wire is used to form the circle.

So, perimeter of the circle will be same as perimeter of the square.

So,  $2 \times \pi \times r = 4 \times 22$ .

or,  $r = \frac{88}{2\pi} = 14$ .

So, Area of the circle  $\pi r^2 = \pi \times 14^2 = \frac{22}{7} \times 14^2 = 616 \text{ cm}^2$ .

B is correct choice.

**Question 50**

What will Rs. 40,000 amount to in 2 years at the rate of 20% p.a., if interest is compounded yearly?

- A Rs. 48,620
- B Rs. 58,564
- C Rs. 57,600
- D Rs. 60,000

**Answer:** C

**Explanation:**

If P amount compounded yearly at r % rate of interest for i years ,then amount become

$$P \left(1 + \frac{r}{100}\right)^i.$$

Here, P=40000 Rs.

r=20%.

i=2 years.

So, The amount will become

$$= 40000 \left(1 + \frac{20}{100}\right)^2.$$

$$= 40000 (1.20)^2.$$

$$= 40000 \times 1.44.$$

$$= 57600.$$

C is correct choice.

**Question 51**

How long will a sum of money take to double. if it is invested at 9.09% p.a. simple interest?

- A 12 years
- B 14 years
- C 11 years
- D 13 years

**Answer:** C

**Explanation:**

Let say, P amount of money will double in k number of years at 9.09% p.a. simple interest rate.

$$\text{So, } (P + Pk \times 9.09/100) = 2P$$

$$\text{or, } (1 + 9.09k/100) = 2$$

$$\text{or, } 9.09k/100 = 1$$

$$\text{or, } k = 100/9.09$$

$$\text{or, } k=11(\text{approx})$$

So, C is correct choice.

**Question 52**

From 1337 to 1453, who were the main combatants in the Hundred Year's War?

- A Kingdom of Germany and Kingdom of France
- B Kingdom of Germany and Kingdom of Italy
- C Kingdom of France and Kingdom of Spain
- D Kingdom of England and Kingdom of France

**Answer:** D

## RRB Group-D Previous Papers

### Question 53

A train crosses a stationary object in 10 seconds. What is the length of the train if the speed of the train is 25 m/s?

- A 300 m
- B 250 m
- C 320 m
- D 200 m

**Answer:** B

#### Explanation:

If a train covers a stationary object, it means that train crosses only its own length.

Speed of the train 25m/s.

so, that train covers 25m in 1 second.

So, in 10 seconds that train will cover

$$25 \times 10 = 250 \text{ meters.}$$

B is correct choice.

### Question 54

Google, in partnership with the Railway's telecom wing RailTel, introduced the first public Wi-Fi service at the ..... railway station.

- A Trivandrum Central
- B Mumbai Central
- C Howah Station
- D Kanpur Central

**Answer:** B

### Question 55

If the pH value of a substance is lower than 7, it would be considered as

- A Neutral
- B Base
- C Acid
- D Ion

Answer: C

## RRB Free Videos (You Tube Channel)

### Question 56

In 2013, the first human liver was grown from stem cells in

- A Japan
- B USA
- C Germany
- D France

Answer: A

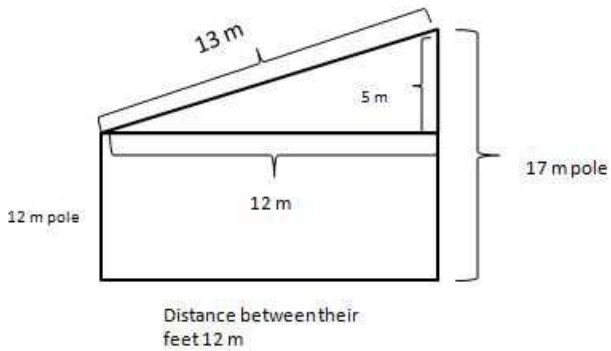
### Question 57

Two poles of the height 12 m and 17 m stand vertically upright on a plane ground. If the distance between their feet is 12 m, find the distance between their tops.

- A 11 m
- B 12 m
- C 13 m
- D 14 m

Answer: C

Explanation:



So, distance between their top would be,

$$\sqrt{12^2 + 5^2} = \sqrt{144 + 25} = \sqrt{169} = 13m.$$

C is correct choice.

### Question 58

In which state is the World Heritage Site 'Basilica of Born Jesus' located?

- A Goa
- B Andhra Pradesh
- C Tamil Nadu



D Kerala

Answer: A

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Question 59

If PLUTO = QKVSP, then SATURN =

A TZUTSM

B TATUTM

C TZUTRO

D RZUTSO

Answer: A

**Explanation:**

PLUTO coded as following:

$P+1=Q; L-1=K; U+1=V; T-1=S; O+1=P$

So, it will be QKVSP.

SATURN will be coded as:

$S+1=T; A-1=Z; T+1=U; U-1=T; R+1=S; N-1=M.$

So, it will be TZUTSM.

A is correct choice.

Question 60

If P713 is divisible by 11, find the value of the smallest natural number P?

A 5

B 6

C 7

D 9

Answer: D

**Explanation:**

Divisibility rule of 11 :

sum of digits in odd place should be equal to sum of digits in even place or their difference should be a multiple of 11.

here, sum of digits in odd place is  $(P+1)$

and sum of digits in even place is  $3+7=10$ .

So, P would get minimum value only when

$P+1=10$  or,  $P=9$ .

D is correct choice.

Question 61

If '+' means  $\times$ , '-' means  $\div$ , ' $\times$ ' means  $+$  and ' $\div$ ' means  $-$ ; compute the value of the expression:  $15 + 9 \times 10 + 5$

- A 185
- B 190
- C 145
- D 130

**Answer: A**

**Explanation:**

By rewriting the given equation, we get :

$$\begin{aligned}
 &15 \times 9 + 10 \times 5 \\
 &= 135 + 50. \\
 &= 185.
 \end{aligned}$$

A is correct choice.

## 10 RRB JE Mocks-Tests Rs.117

**Question 62**

Which of the following is NOT a rich source of Calcium?

- A Cheese
- B Collard Greens
- C Figs
- D Carrots

**Answer: D**

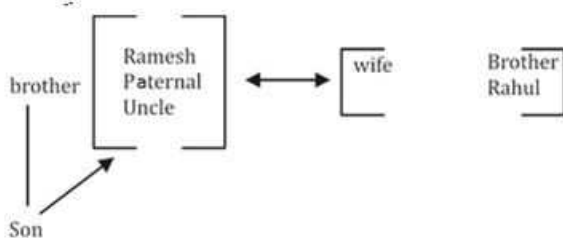
**Question 63**

Pointing at a photograph, Ramesh said, "He is Rahul, my brother's son's only paternal uncle's wife's brother". How is Rahul related to Ramesh?

- A Brother-in-law
- B Brother
- C Cousin
- D Son

**Answer: A**

**Explanation:**



Rahul is Brother in law to Ramesh

A is correct choice.

**Question 64**

**Who was the first Indian to become a Nobel Laureate?**

- A Rabindranath Tagore
- B Mahatma Gandhi
- C C. V. Raman
- D Mother Teresa

**Answer: A**

## RRB General Science Notes (Download Pdf)

**Question 65**

**Choose the pair which is related in the same way as the words in the first pair from the given choices. OPTHALMOLOGIST : EYE :: NEPHROLOGIST:**

- A NERVOUS SYSTEM
- B LIVER
- C KIDNEY
- D STOMACH

**Answer: C**

**Explanation:**

An *ophthalmologist* is a medical or osteopathic doctor who specializes in eye and vision care.

Similarly, A *nephrologist* is a medical doctor who specializes in kidney care and treating diseases of the kidneys.

C is correct choice.

**Question 66**

**Indian born Shiva Ayyadurai is associated with the invention of**

- A Email
- B Internet
- C Keyboard
- D Mouse

**Answer: A**

Question 67

Below are given statements followed by some conclusions. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statements.

Statements:

- A. All boys are monkeys.
- B. Some plants are monkeys.

Conclusions:

- I. Some monkeys are boys.
- II. All plants are boys.

Decide which of the below conclusions logically follows from the given statements.

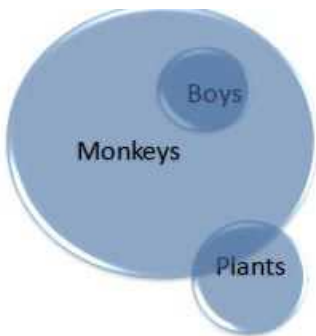
- A Only conclusion I follows
- B Only conclusion II follows
- C Both I and H follow
- D Neither of them follows

Answer: A

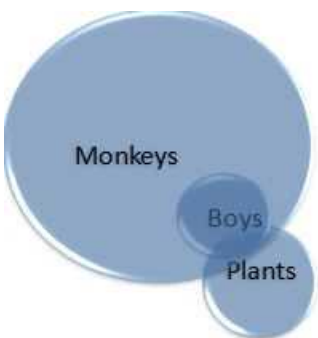
Explanation:

Following two cases are possible:

case1 :



Case2:



So, Some Monkeys are Boys ,is only correct conclusion.

Option A is correct choice.

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

Question 68

The average of 11 results is 50. The average of the first 6 results is 49 and that of the last 6 results is 52. What is the 6<sup>th</sup> result?

- A 48
- B 51

C 56

D 49

**Answer:** C

**Explanation:**

Let say, 11 results are  $R_1, R_2, R_3, \dots, R_{11}$ .

$$\text{so, } (R_1 + R_2 + \dots + R_{11}) = 50 \times 11 = 550 \dots (1)$$

Sum of first six results would be  $49 \times 6 = 294$ .

And Sum of last six results would be  $52 \times 6 = 312$ .

$$\text{So, } R_1 + R_2 + \dots + R_6 = 294 \dots (2)$$

$$\text{And } R_6 + R_7 + \dots + R_{11} = 312 \dots (3)$$

if we add (2)&(3):

$$R_1 + R_2 + \dots + 2(R_6) + \dots + R_{10} + R_{11} = 312 + 294 = 606 \dots (4)$$

Equation(4)-(1) :

$$R_6 = 56.$$

C is correct choice.

**Question 69**

$$5.36 \times 3.6 =$$

A 19.296

B 18.946

C 21.996

D 20.26

**Answer:** A

**Explanation:**

$$5.36 \times 3.6$$

$$= (5 + 0.36)(3 + 0.6)$$

$$= 15 + 1.08 + 3 + 0.216$$

$$= 19.296$$

A is correct choice.

**Question 70**

$$\text{Compute: } (18 + 2 \times 3.3) \div 0.003$$

A 82000

B 5100

C 1120

D 8200

**Answer:** D

**Explanation:**

$$(18 + 2 \times 3.3) \div 0.003$$

$$\begin{aligned}
 &=(18+6.6)\div 0.003 \\
 &=24.6\div 0.003 \\
 &=(246/10)\times(1000/3) \\
 &=82\times 100 \\
 &=8200.
 \end{aligned}$$

D is correct choice.

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### Question 71

A ladder 10 m long is leaning against a vertical wall. It makes an angle of  $60^\circ$  with the ground. How far is the foot of the ladder from the wall?

- A 5 m
- B 8.66 m
- C 17.32 m
- D 15 m

**Answer:** A

#### Explanation:

Let say, height of the wall is 'a' and

distance between the foot of the wall and foot of the ladder is 'b'.

Given that ,height of the ladder is 10 m.

$$\text{So, } a^2 + b^2 = 10^2$$

$$\text{or, } a^2 + b^2 = 100 \dots\dots\dots(1)$$

And angle between the ladder and ground is  $60^\circ$ .

$$\text{so, } \tan \theta = \tan 60^\circ = \sqrt{3}.$$

$$\text{Or, } \sqrt{3} = (a/b).$$

$$\text{or, } a = \sqrt{3}b.$$

put this value in equation (1):

$$(\sqrt{3}b)^2 + b^2 = 100$$

$$\text{or, } 4b^2 = 100$$

$$\text{or, } b^2 = 25$$

or,  $b=5$ . (-5 can not be the value of distance)

$$\text{So, } a=5\sqrt{3}.$$

So, the ladder is 5 m away from the base of the wall.

A is correct choice.

### Question 72

Given below is a statement followed by some conclusions. You have to take the given statement to be true even if it seems to be at variance with the commonly known facts and then decide which of the given conclusions logically follow(s) from the given statement.

**Statement:** Sachin Tendulkar was the greatest batsman in Indian Cricket.

**Conclusions:**

- I. There will be no other batsman greater than Sachin Tendulkar in Indian Cricket.
- II. Sachin Tendulkar is the greatest batsman in the world.

Choose the right option from below

- A Only conclusion I follows
- B Only conclusion II follows
- C Both I and II follow
- D Neither of them follows

**Answer: D**

**Explanation:**

Sachin Tendulkar was the greatest batsman of Indian cricket team :it implies that in past , many great batsman were there in Indian Cricket team but Sachin Tendulkar was one of them.

So, it doesn't imply that no other batsman is greater than Sachin Tendulkar.

Sachin is one of the greatest batsman of Indian cricket team but we can't imply that he is the greatest of the world.

So, none of the conclusion is right.

D is correct choice.

**Question 73**

**In January 2016, the Union Cabinet approved the proposal of the Ministry of Power for amendments in the Tariff Policy with the focus on 4 Es. Which of the following is NOT a part of the 4 Es?**

- A Electricity for all
- B Environment for sustainable future
- C Ease of doing business to attract investments
- D Ensuring affordable electrical goods to all

**Answer: D**

**Explanation:**

4 E's were :

1. Electricity
2. Efficiency
3. Environment
4. Ease of doing business.

But in electricity section they introduced that "Affordable power for people near coal mines by enabling procurement of power from coal washery reject based plants."

So, option D is not valid.

## RRB NTPC Previous Papers (Download PDF)

**Question 74**

**Choose the pair which is related in the same way as the words in the first pair from the given choices. CRICKET : PITCH :: SKATING :**

- A RINK
- B GROUND
- C COURT
- D RING

**Answer: A**

**Explanation:**

A pitch is a place where cricket is used to play.

Similarly, a Rink is a icy place where skate is used to play.

So,A is correct choice.

**Question 75**

**Below are two statements. You have to take the given statements to be true even if they seem to be at variance with the commonly known facts.**

**Statements:**

**I Some trees are buildings.**

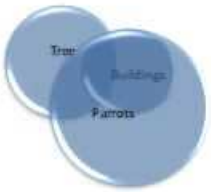
**II All buildings are parrots.**

**Decide which of the below conclusions logically follows from the given statements.**

- A All parrots are trees
- B All parrots are buildings
- C Some parrots are buildings
- D No parrot is a tree

**Answer: C**

**Explanation:**



"Some Parrots are Buildings" - it is right conclusion.

C is correct choice.

**Question 76**

**Re-location of endangered or rare species from their natural habitat to protected areas equipped for their protection and preservation is called**

- A Ex situ conservation
- B In situ conservation
- C Exile conservation
- D Escaped conservation

**Answer: A**

## RRB NTPC Free Mock Tests

**Question 77**

**From which country is the 'Fundamental Duties' of the Indian Constitution borrowed?**

- A UK



- B USA
- C USSR
- D Australia

Answer: C

**Question 78**

In India, the highest cricket ground above sea level lies in which state?

- A Himachal Pradesh
- B Sikkim
- C Uttar Pradesh
- D Assam

Answer: A

**Instructions**

Study the following table and answer the questions below  
Given below is the list of Expenditures (in lakh Rupees) per annum of company Z Over the Years.

Year	Expenditure Items for company Z				
	Salary	Fuel and transport	Bonus	Interest on Loans	Taxes
2011	412	227	15	133.4	98
2012	557	233	16.5	142.5	138
2013	656	245	17.3	151.6	174
2014	680	260	17.9	166.4	188
2015	720	284	18.5	179.4	198

**Question 79**

What is the average amount of Bonus per year?

- A Rs. 17.04 Lakhs
- B Rs. 17 Lakhs
- C Rs. 17.4 Lakhs
- D Rs. 16.8 Lakhs

Answer: A

**Explanation:**

Expenditures on Bonus by years :

in 2011 : 15 lakhs

in 2012 : 16.5 lakhs

in 2013 : 17.3 lakhs

in 2014 : 17.9 lakhs

in 2015 : 18.5 lakhs

so, total expenditure made on Bonus over these five years

$$= 15 + 16.5 + 17.3 + 17.9 + 18.5$$

$$= 85.2.$$

So, average amount of bonus per year

$$= 85.2/5 = 17.04 \text{ lakhs.}$$

A is correct choice.

## RRB JE Previous Papers ( Download Pdf)

### Question 80

What is the total expenditure of Company Z in the year 2011?

- A Rs. 897.2 Lakhs
- B Rs. 827.5 Lakhs
- C Rs. 885.4 Lakhs
- D Rs. 727.1 Lakhs

**Answer:** C

#### Explanation:

In 2011 expenditure made by company Z in different sectors are :

Salary=412 lakhs.

Fuel and Transport=227 lakhs.

Bonus=15 lakhs.

Interest on loans=133.4 lakhs.

Taxes=98 lakhs.

So, in 2011, total expenditure made by company Z was =  $412 + 227 + 15 + 133.4 + 98$  lakhs

$$= 885.4 \text{ lakhs.}$$

C is correct choice.

### Question 81

What is the expenditure on Fuel and Transport as a percentage of expenditure on Salary for the year 2012?

- A 41.8%
- B 40.1%
- C 43.1%
- D 44.2%

**Answer:** A

#### Explanation:

In 2012, expenditure on Fuel and Transport was =233 lakhs and expenditure on salary was =557 lakhs.

So, the required percentage would be

$$= \left( \frac{233}{557} \right) \times 100.$$

$$= 41.83.$$

A is correct choice.

#### Instructions

For the following questions answer them individually

**Question 82**

The cost of 2 pencil, 4 pens and 8 erasers is Rs. 12 and the cost of 8 pens, 10 pencils and 4 erasers is Rs. 36. How much will 3 pencils, 3 pens and 3 erasers cost?

- A Rs. 10
- B Rs. 15
- C Rs. 12
- D Rs. 18

**Answer: C**

**Explanation:**

Let say, cost of one pencil, pen and eraser are c, p and e respectively.

So, cost of 2 pencil, 4 pens and 8 eraser would be  $= (2c + 4p + 8e)$ .

$$\text{so, } (2c + 4p + 8e) = 12 \dots \dots \dots (1)$$

Now, cost of 10 pencil, 8 pens and 4 eraser would be  $= (10c + 8p + 4e)$ .

$$\text{so, } (10c + 8p + 4e) = 36 \dots \dots \dots (2)$$

if we add equation (1) & (2) :

$$12c + 12p + 12e = (12 + 36).$$

$$\text{or, } 12c + 12p + 12e = 48$$

$$\text{or, } (c + p + e) = 4.$$

$$\text{So, } 3(c + p + e) = 3 \times 4 = 12.$$

So, cost of 3 pencil, 3 pens and 3 erasers would be 12 Rs.

C is correct choice.

**RRB JE Free Mock Test**

**Question 83**

If BEAR = YVZI, then BUILDING =

- A ATHKCHMF
- B YFROWRMT
- C YFSWOSMR
- D ATHKCHMT

**Answer: B**

**Explanation:**

English alphabets conversion table:

A=1, B=2, C=3, D=4, E=5....., X=24, Y=25 and

Z=26.

in the above code:

BEAR=YVZI implies that ,

$$B + Y = 2 + 25 = 27.$$

$$E+V=5+22=27.$$

$$A+Z=1+26=27.$$

$$R+I=18+9=27.$$

Similarly,

BUILDING should be coded as:

YFROWRMT.

So, B is correct choice.

**Question 84**

**What is Geotropism?**

- A Growth of plants in response to Gravity
- B Growth of plants in response to Sunlight
- C Growth of plants in response to Nutrients
- D Growth of plants in response to Water

**Answer:** A

**Question 85**

**If the cost price of 120 articles is equal to the selling price of 80 articles, find the profit percent.**

- A 33.33%
- B 40%
- C 50%
- D 60%

**Answer:** C

**Explanation:**

Let say, cost price of one article is  $c$  and selling price of one article is  $s$ .

So, cost price of 120 article is  $120c$ .

And selling price of 80 articles is  $80s$ .

So,  $120c=80s$ .

$$\text{or, } (s/c) = 120/80 = 1.5.$$

$$\text{or, } (s - c)/c = 1.5 - 1 = 0.5.$$

So, Profit percentage is 50%.

C is correct choice.

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**Question 86**

**In 2016, ISRO conducted 1st satellite-based warning system trial for Indian Railways in**

- A Mumbai
- B Ahmedabad

- C Kolkata
- D Delhi

Answer: B

**Question 87**

In 1831, electricity became viable for use in technology when \_\_\_\_\_ created the electric dynamo.

- A Benjamin Franklin
- B Alessandro Volta
- C Michael Faraday
- D Thomas Edison

Answer: C

**Question 88**

If RAILWAY is coded as 24-7-15-18-29-7-31 then how will you code STATION?

- A 25-24-7-24-15-21-19
- B 25-26-7-26-15-21-20
- C 25-24-8-24-15-21-19
- D 25-26-8-26-15-21-20

Answer: B

**Explanation:**

If we put A=7 and then start consider next letter values in following way ,

- B=8
- C=9
- D=10

.  
. .  
. . .

X=30,Y=31 and Z=32.

So, we get :

R=24 ,A=7,I=15,L=18,W=29 and Y=31.

So,code for RAILWAY become :

24-7-15-18-29-7-31

Similarly,code for STATION would be:

25-26-7-26-15-21-20.

B is correct choice.

**Question 89**

Select the correct set of symbols:  $64 \ 4 \ 5 \ 8 = 88$

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

**Answer: D**

**Explanation:**

If we use  $\div, \times, +$  in the question:

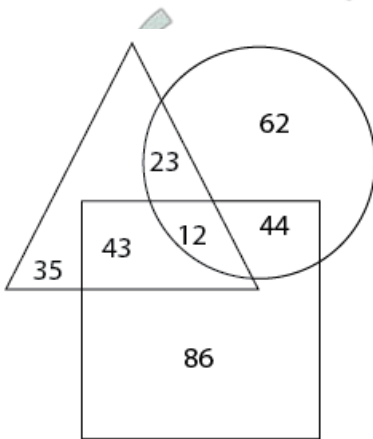
$$\begin{aligned} 64 \div 4 \times 5 + 8 \\ = 16 \times 5 + 8 \\ = 80 + 8 \\ = 88. \end{aligned}$$

D is correct choice.

**Instructions**

Study the diagram given below and answer the questions based on it.

- $\triangle$  represents Students who have choosen Art Course
- $\circ$  represents Students who have choosen Science Course
- $\square$  represents Students who have choosen DanceCourse



**Question 90**

How many students have chosen the Science course?

- A 141
- B 185
- C 113
- D 145

**Answer: A**

**Explanation:**

The circle represents , number of students who choose science.

So,total number of science students are

$$(62+44+12+23)=141.$$

A is correct choice.

#### Question 91

How many students have chosen Dance course and Science course but not the Arts course?

- A 44
- B 13
- C 12
- D 23

Answer: A

#### Explanation:

From the diagram we can say that :

Students who choose dance and science are  $(44+12)=56$ .

But 12 of them also choose arts.

So,number of students who choose science and dance but not arts are  $(56-12)=44$ .

A is correct choice.

## RRB Free Videos (You Tube Channel)

#### Question 92

How many students have chosen Arts course and Science course but not the Dance course?

- A 23
- B 12
- C 35
- D 44

Answer: A

#### Explanation:

Clearly it is visible from the picture,

there are  $(23+12)=35$  students present who do arts and science.

But 12 of them also do dance.

So,number of students who choose arts and science but not dance is

$$35 - 12 = 23.$$

A is correct choice.

#### Instructions

For the following questions answer them individually

#### Question 93

When an object thrown straight upwards gets to the top of its path, its

- A Velocity is zero and its acceleration is zero
- B Velocity is zero and its acceleration is about  $10 \text{ m/s}^2$
- C Velocity is  $10 \text{ m/s}$  and its acceleration is zero
- D Velocity is  $10 \text{ m/s}$  and its acceleration is about  $10 \text{ m/s}^2$

**Answer: B**

**Explanation:**

When the object goes to the peak point, velocity realised by the object will be 0 though it is not visible but no velocity appears at the peak point.

But gravitational acceleration stills appears on the object, so  $9.81 \text{ m/s}^2$  gravitational acceleration works on the object. So, acceleration still works on the object, that is why, the object started to fall down on earth.

So, B is correct choice.

**Question 94**

Select the correct set of symbols:  $21 \ 9 \ 13 \ 7 = 195$

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

**Answer: D**

**Explanation:**

If we use  $\times, +, -$  respectively in between above numbers :

$$\begin{aligned}
 &21 \times 9 + 13 - 7 \\
 &= 189 + 13 - 7 \\
 &= 202 - 7 \\
 &= 195.
 \end{aligned}$$

D is correct choice.

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**Question 95**

Which of the following gases in air is responsible for the discoloration of Brass?

- A Hydrogen Sulphide
- B Carbon Dioxide
- C Nitrogen
- D Carbon Monoxide

**Answer: A**

**Question 96**

Choose the one which is different or odd from the following.



- A Dal Lake
- B Sambhar Lake
- C Vembanad Lake
- D Wular Lake

Answer: B

**Question 97**

What is the mode of the following list of numbers: 2, 5, 6, 5, 4, 3, and 7?

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

Answer: C

**Explanation:**

A mode is a number that is occur most in a sequence.

After arranging in ascending order we get:

2,3,4,5,5,6,7.

5 occurs 2 times which is more than other number occurs in the sequence.

C is correct choice.

## 10 RRB JE Mocks-Tests Rs.117

**Question 98**

India's national motto, Satyameva Jayate (lit. "Truth alone triumphs"), is a mantra from the ancient Indian scripture

- A Rigveda
- B Mundaka Upanishad
- C Bhagavad Gita
- D Matsya Purana

Answer: B

**Question 99**

P bought an article for Rs. 400 and sold it at a profit of 10%. What would have been the increase in the profit percent if it was sold for Rs. 460?

- A 5%
- B 10%
- C 12%
- D 15%

**Answer: A**

**Explanation:**

If it was sold for 460 Rs. ,

then profit of the article would have been

$$\{(460-400)/400\} \times 100$$

=15 %.

Then, he would have been realised (15-10)%

or 5% increment in profit percentage.

A is correct choice.

**Question 100**

In 2016, ISRO successfully launched its fifth navigation satellite called

A IRNSS 1D

B IRNSS 1E

C VELOX-C1

D TeLEOS-1

**Answer: B**

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