



## RRB JE 26th June 2019 Shift-3

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## RRB JE 26th June 2019 Shift-3

### Instructions

For the following questions answer them individually

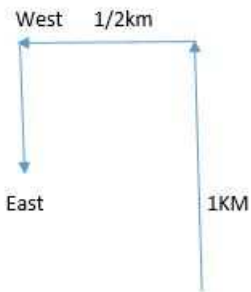
### Question 1

'A' started from a place. After walking for 1 km, he turns to the left, then walking for  $\frac{1}{2}$  km, he again turns left. Now, he is going in the eastward direction. Towards which direction did he originally start?

- A West
- B North
- C South
- D East

Answer: A

Explanation:



As per question he is going in the eastward direction in final left turn so from figure we concluded that he started towards west direction

## RRB NTPC Free Mock Tests

### Question 2

In which of the following two ways can resistances be combined?

- A Line and across
- B Serial and across
- C Series and parallel
- D Straight and between

Answer: C

### Question 3

Which of the following fractions are in descending order?

- A  $\frac{5}{8}, \frac{7}{12}, \frac{3}{4}, \frac{13}{16}$
- B  $\frac{7}{12}, \frac{13}{16}, \frac{3}{4}, \frac{5}{8}$
- C  $\frac{5}{8}, \frac{7}{12}, \frac{13}{16}, \frac{3}{4}$

D  $\frac{13}{16}, \frac{3}{4}, \frac{5}{8}, \frac{7}{12}$

**Answer: D**

**Explanation:**

$\frac{5}{8}, \frac{7}{12}, \frac{3}{4}, \frac{13}{16}$

take LCM to make the denominator of each fraction same

LCM of (8,12,4,16)=48

option A wrong

$\frac{30}{48} > \frac{28}{48} < \frac{36}{48} < \frac{39}{48}$

option B wrong

$\frac{28}{48} < \frac{39}{48} > \frac{36}{48} > \frac{30}{48}$

option C wrong

$\frac{30}{48} > \frac{28}{48} < \frac{39}{48} > \frac{36}{48}$

option D right

$\frac{39}{48} > \frac{36}{48} > \frac{30}{48} > \frac{28}{48}$

**Question 4**

**Transition metals are often paramagnetic owing to-**

- A Presence of vacant orbitals
- B Presence of unpaired electrons
- C Malleability and ductility
- D High melting point and boiling point

**Answer: B**

## RRB JE Previous Papers ( Download Pdf)

**Question 5**

If 'CAB' is coded as 'WUV', how is 'DEAF' coded in that language ?

- A XWUY
- B UYXZ
- C UWYV
- D XYUZ

**Answer: D**

**Question 6**

In which of the following countries was the first Commonwealth Games held?

- A Canada
- B China

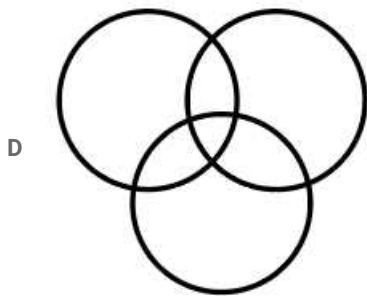
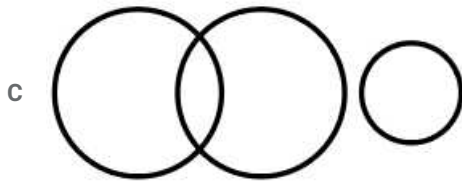
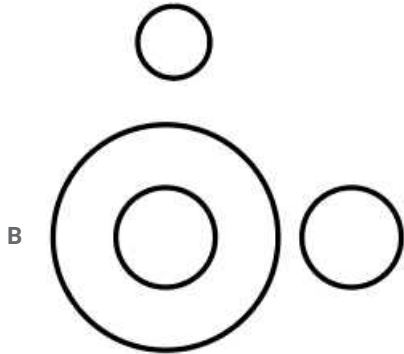
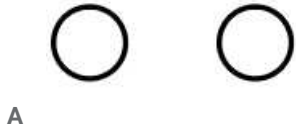
C Switzerland

D Singapore

Answer: A

Question 7

Choose the figure that best represents the relationship among the classes given below.  
Triangle, Quadrilateral, Square



Answer: B

## RRB JE Free Mock Test

Question 8

ZikaVac is the first vaccine for Zika virus unveiled by-

A Daiichi Sankyo, Japan

B Biocon, India

C Astellas Pharma, Japan

D Bharat Biotech, India

Answer: D

**Question 9**

In this question, three statements are given followed by three conclusions. Choose the conclusion(s) which best fit(s) logically.

**Statements:**

- 1) All gases are waters.
- 2) Some stones are gases.
- 3) All stones are liquids.

**Conclusions:**

- I. Some waters are stones.
- II. Some gases are liquids.
- III. No stone is water.

- A Only conclusions I and II follow
- B All conclusions follow
- C Only conclusion III follows
- D Only conclusions I and III follow

**Answer: A**

**Question 10**

What is the harmful chemical present in tobacco?

- A Nicotine
- B Cyanide
- C Insulin
- D Caffeine

**Answer: A**

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**Question 11**

What is relative density of a substance ?

- A Density of substance  $\times$  density of water
- B Density of substance / density of water
- C Density of substance + density of water
- D Density of water / density of substance

**Answer: B**

**Question 12**

**Simplify:**  $\frac{3}{4} \left[ \frac{1}{6} - \left( \frac{1}{2} - \frac{1}{3} \right) \right]$

- A  $\frac{3}{14}$
- B  $\frac{5}{12}$
-

C  $\frac{7}{12}$

D 0

Answer: D

**Question 13**

If two-thirds of one quarter of a number is 32, then find the number.

A 198

B 192

C 196

D 202

Answer: B

## RRB Group-D Previous Papers

**Question 14**

Which of these organs is NOT vestigial?

A Ear Muscles

B Brain

C Appendix

D Wisdom Teeth

Answer: B

**Question 15**

A train 360 m long is running at a speed of 45 km/h. In what time will it pass a bridge of 140 m long?

A 45 seconds

B 40 seconds

C 48 seconds

D 42 seconds

Answer: B

**Question 16**

Two friends start at the same time from cities P and Q towards cities Q and P respectively. After meeting at some point between P and Q, they reach their destinations in 54 and 24 minutes respectively. In what time did the one who moved from Q to P complete his journey?

A 36 minutes

B 72 minutes

C 60 minutes

D 48 minutes

Answer: C

**Explanation:**

Let the two friends be "M" who will be travelling from P to Q and "N" who will be travelling from Q to P.

Let us consider the speed of M be "x" and the speed of N be "y". Also, let them meet after "t" minutes.

Case 1: Before M & N meets each other

$$\text{Distance traveled by } M = x \times (t)$$

$$\text{Distance traveled by } N = y \times (t)$$

Case 2: After M & N crosses each other

$$\text{Distance traveled by } M = x \times (54)$$

$$\text{Distance traveled by } N = y \times (24)$$

Now,

$$(\text{Distance traveled by M \& N before meeting each other}) = (\text{Distance traveled by M \& N after crossing each other})$$

$$\therefore x \times t = x \times 54 \dots (i)$$

$$\text{And, } y \times t = y \times 24 \dots (ii)$$

Multiplying equation (i) & (ii), we get

$$xy \times t^2 = xy \times 54 \times 24$$

$$\text{or, } t^2 = 1296$$

$$\text{or, } t = 36$$

Since we are required to find the time taken by N to travel the entire journey from city Q to P, therefore, N would take  $36 + 24 = 60$  minutes to complete his entire journey.

## RRB Free Videos (You Tube Channel)

### Question 17

On which of the following riverbanks is Hyderabad located ?

- A Narmada
- B Musi
- C Chambal
- D Ganga

Answer: B

### Question 18

Which of the following banks has launched the 'NRI-Insta-Online' account-opening process for NRIs in 2019?

- A SBI Bank
- B HDFC Bank
- C Axis Bank
- D IDBI Bank

Answer: D

Question 19

ELISA refers to which of the following?

- A The virus which causes AIDS
- B The centre in which AIDS was detected first
- C A test to detect AIDS
- D The very first person who died of AIDS

Answer: C

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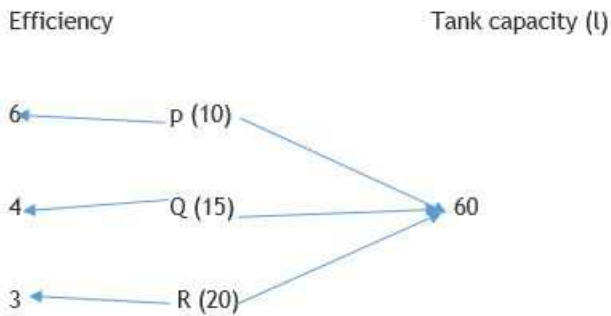
Question 20

Three pipes P, Q and R can fill a tank in 10, 15 and 20 hours separately. P was opened at 7 AM, Q at 8 AM and R at 9 AM. At what time was the tank completely filled if R can work for only 3 hours at a stretch and needs a 1 hour break?

- A 12:00 PM
- B 12:30 PM
- C 12:12 PM
- D 1:00 PM

Answer: B

Explanation:



P was opened at 7 AM, Q at 8 AM and R at 9 AM

At 12 Pm

P run for 5 h, Q run at 4h, R run at 3h

$$p = 6 \times 5 = 30$$

$$Q = 4 \times 4 = 16$$

$$R = 3 \times 3 = 9$$

**Total fill at 12 am=30+16+9=55**

Remaning =60-55=5

R at break after 3 hour ,only P & Q open for half and hour

total efficiency of P and Q=6+4=10

tank filled by P & Q in half and hour



$$= 10 \times \frac{1}{2} = 5$$

So tank totally filled at 12:00 +00:30

$$= 12 : 30PM$$

#### Question 21

If  $\frac{x+a}{x+b} = \frac{x+3a}{x+a+b}$ , find the value of 'x'

- A a - b
- B a + b
- C a + 2b
- D a - 2b

Answer: D

#### Question 22

In which of the following reactions are two different atoms or groups of atoms (ions) exchanged?

- A Oxidation
- B Double displacement
- C Reduction
- D Single displacement

Answer: B

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#### Question 23

A tent is in the form a cylinder and is surmounted by a cone; radius and height of the cylindrical portion are 10 m and 25 m respectively. For the conical part, radius is 10 m and slant height is 15 m. Calculate the amount of canvas required to build the tent allowing 20% extra for folding, stitching etc.

- A  $3783.26 m^2$
- B  $4714.43 m^2$
- C  $3772.14 m^2$
- D  $2451.40 m^2$

Answer: D

#### Explanation:

Height of Cylinder = 25 m

Radius of Cylinder = 10 m

So, Lateral surface area of cylinder =  $2\pi rh$

$$= 2 \times \frac{22}{7} \times 10 \times 25$$

$$= 1571.42857m^2$$

Slant height of cone(l) = 15 m

Radius of cone = 10 m

So, Lateral surface area of cone =  $\pi r l$

$$\frac{22}{7} \times 10 \times 15 \\ = 471.428571m^2$$

Canvas required to build the tent =  $1571.42857 + 471.428 = 2042.85657m^2$

Tent is allowed 20% extra for folding, stitching

So, total canvas is (100 + 20)%

$$= 1.2 \times 2042.85657$$

$$= 2451.42m^2$$

#### Question 24

Read the following information carefully and answer the question given below.

Eight friends—Rahul, Mahesh, Priya, Dinesh, Prasad, Praveen, Ramu and Aruna sit in a row having chairs numbered one to eight in ascending order from left to right. They all are facing north direction.

Priya sits on the chair numbered six. There are exactly two persons between Priya and Rahul. Mahesh and Aruna always sit adjacent to each other. Ramu sits adjacent to neither Rahul nor Priya. Prasad never sits on a chair having an odd number on it. Neither Mahesh nor Aruna sits on chair numbered four. There is only one person between Praveen and Mahesh. Prasad sits on the right (not an immediate right) of Dinesh, and Dinesh never sits adjacent to Praveen.

Which of the following pairs sits at the two extreme ends?

- A Aruna and Ramu
- B Mahesh and Praveen
- C Aruna and Dinesh
- D Prasad and Rahul

Answer: A

#### Question 25

Arjun is seventeenth from the left end of a row of 29 boys and Rahul is seventeenth from the right end in the same row. How many boys are there between them in the row?

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

Answer: C

## RRB General Science Notes (Download Pdf)

#### Question 26

The pH of a solution depends on its \_\_\_\_\_ concentration.

- A Hydronium ions
- B Oxide ions
- C Hydride ions

D Hydroxyl ions

Answer: A

Question 27

The sum and difference of the ages of two brothers are in the ratio 5 : 1. If the product of their ages is 96, then what are their ages?

A 6, 10

B 24, 4

C 6, 16

D 8, 12

Answer: D

Question 28

Find the missing group of alphabets in the following series.  
PTVX, AEGI, (...), WACE, HLNP

A KNQT

B LPRT

C KPQS

D HKLO

Answer: B

Explanation:

P +4 T +2 V +2 X

A +4 E +2 G +2 I

L +4 P +2 R +2 T

ANS=LPRT

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Question 29

The arrangement of particles is most ordered in the case of-

A Solids

B Liquids

C Gas

D Plasma

Answer: A

**Question 30**

Which organization's original name was 'Special Police Establishment'?

- A CID
- B RAW
- C CRPF
- D CBI

Answer: D

**Question 31**

If '+' means '-', '-' means '+', '×' means '÷' and '÷' means '×', then which of the given equations is correct ?

- A  $30 + 5 \div 4 - 10 \times 5 = 22$
- B  $30 - 5 + 4 \div 10 \times 5 = 62$
- C  $30 + 5 - 4 \div 10 \times 5 = 58$
- D  $30 \times 5 - 4 \div 10 + 5 = 41$

Answer: D

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

**Question 32**

Carbon exists in the atmosphere in the form of-

- A Carbon monoxide
- B Carbon dioxide
- C Coal
- D Carbon monoxide in traces and carbon dioxide

Answer: D

**Question 33**

Father's age at the time of the birth of his son was the son's present age. If the son's age is 20 years, then find the father's present age.

- A 40 years
- B 39 years
- C 30 years
- D 60 years

Answer: A

**Question 34**

**Who is the author of the book 'India Divided'?**

- A Jawaharlal Nehru
- B Indira Gandhi
- C Abul Kalam Azad
- D Dr. Rajendra Prasad

**Answer: D**

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**Question 35**

**An article costing Rs.1000 is sold at 5% loss and another article purchased with the money got was again sold at 5% gain. Was there a loss or gain and how much?**

- A 2.5% gain
- B Rs.2.5 loss
- C 2% loss
- D Rs.2 gain

**Answer: B**

**Explanation:**

purchased articles for rs.1000

He sold at 5% loss

Cost - Loss = Selling Price

SP=100%-5%=95%

$$SP = \frac{95 \times 1000}{100}$$

SP=950

Again purchased article for rs. 950

He sold at 5% gain

Cost +profit = Selling Price

SP=100%+5%=105%

$$SP = \frac{105 \times 950}{100}$$

SP = 997.5

Total loss occur= 1000-997.5

=2.5

**Question 36**

**Find the ODD oneout from the given options.**

- A DEB
- B NOL

C HIF

D RTP

Answer: D

**Explanation:**

Each letter is represented by their number/position in the alphabetical series

D E B

4 5 2

|

N O L

14 15 12

H I F

8 9 6

R T P

18 20 16

SO

RTP is different

**Question 37**

Which of the following is/are the Standing Committees in each House of the Parliament ?

A Committee of Privileges

B Committee on Petitions

C All of the options

D Business Advisory Committee

Answer: C

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**Question 38**

Find the largest number of four digits that is exactly divisible by 27, 18, 15 and 12.

A 9720

B 9700

C 9710

D 9730

Answer: A

**Question 39**

Simplify:  $7.2 - [3 + 0.5 \text{ of } (3.1 - 2.3 \times 1.02)]$

- A 4.223
- B 4.233
- C 3.432
- D 3.823

Answer: D

**Question 40**

Choose the alternative that best replaces the question mark(?) in the given figure.

3	5	4
8	?	10
5	4	3

- A 7
- B 4
- C 6
- D 11

Answer: C

## RRB JE Previous Papers ( Download Pdf)

**Question 41**

On a playing ground, Dev, Kumar, Nithish, Arun and Dinesh are standing as described below facing the North.

- (i) Kumar is 40 meters to the right of Arun
- (ii) Dev is 60 meters to the South of Kumar.
- (iii) Nithish is 25 meters to the West of Arun.
- (iv) Dinesh is 90 meters to the North of Dev.

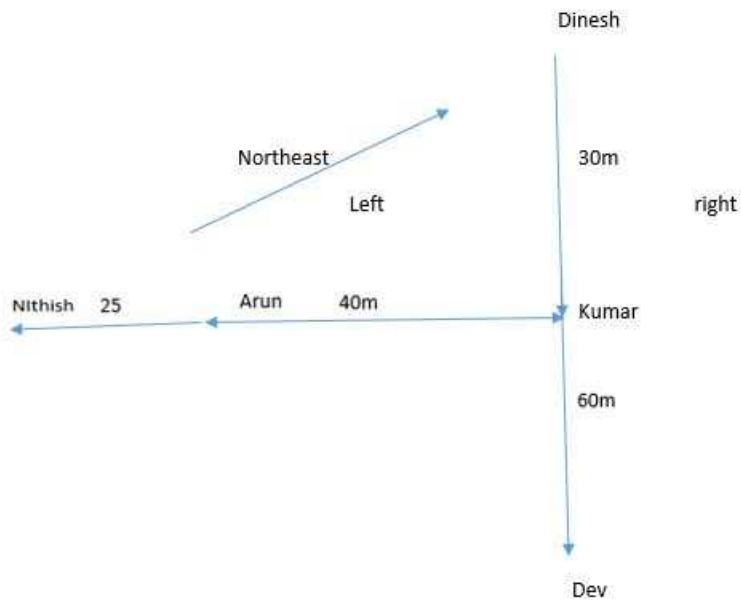
Who is to the north east of the person who is to the left of Kumar?

- A Arun
- B Nithish
- C Dinesh
- D Dev

Answer: C

**Explanation:**

ans= dinesh



**Question 42**

Find the LCM of set of prime numbers a, b and c.

- A  $abc$
- B  $a^2b^2c^2$
- C  $\left(\frac{1}{3}\right)abc$
- D  $a + b + c$

**Answer: A**

**Question 43**

Who is the author of the Hindi play 'Adhe-Adhure?'

- A Prem Chand
- B Mohan Rakesh
- C Nirala
- D Pant

**Answer: B**

**RRB JE Free Mock Test**

**Question 44**

Three times the first of three cosecutive odd integers is 3 more than two times the third. Find the third integer.

- A 15
- B 9
- C 13



D 11

Answer: A

Question 45

If the two words of a scientific name are similar, the name is said to be-

- A Tautonym
- B Antonym
- C Synonym
- D Homonym

Answer: A

Question 46

Which of the following fruits has high potassium content?

- A Guava
- B Apple
- C Banana
- D Pomegranate

Answer: C

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Question 47

Ajay and Vijay can do a piece of work in 70 and 60 days respectively. They start the work together; and after sometime, Ajay leaves. Vijay finished the remaining work in 47 days. When did Ajay quit the work?

- A After 14 days
- B After 10 days
- C After 7 days
- D After 8 days

Answer: C

Question 48

Which of the following alloys contains mercury as one of its constituents?

- A Solder
- B Stainless steel
- C Zinc amalgam
- D Alnico

Answer: C

Question 49

In this question, two statements are given followed by three conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

1) No soap is tree.

2) All trees are roads.

Conclusions:

I. Some trees are roads.

II. All roads are trees.

III. No road is soap.

A Only conclusion III follows

B Only conclusion II follows

C Only conclusion I follows

D All conclusions follows

Answer: C

## RRB Group-D Previous Papers

Question 50

How is the river Ganga called in Bangladesh?

A Padma

B Mishmi

C Kosi

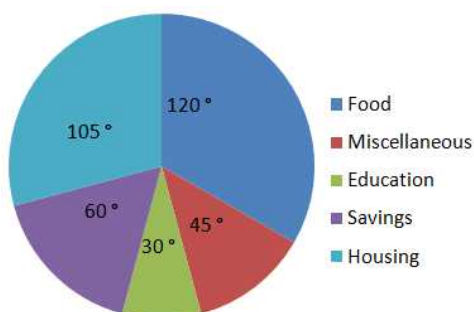
D Ravi

Answer: A

Question 51

Study the following pie chart and answer the question given below it.

The following pie chart represents the expenditure on various items and savings in a month for a family.



If savings in a month amount to Rs.8000, what is the total expenditure for the month?

A Rs.40000

B Rs.42000

C Rs.36000

D Rs.48000

Answer: A

**Explanation:**

we know that circle represent 360 degree

saving=60 degree=8000

total expenditure =300 degree

$$= \frac{300 \times 8000}{60}$$

$$= 40000$$

**Question 52**

**Banana is propagated by-**

- A Suckers
- B Tillers
- C Stem cutting
- D Crown

Answer: A

**RRB Free Videos (You Tube Channel)**

**Question 53**

Two pipes can fill a cistern in 12 minutes and 15 minutes. A third pipe can empty it in 6 minutes. The first two are open for 6 minutes and after that the third pipe is also opened. In what time will the cistern be emptied?

- A 57 minutes
- B 48 minutes
- C 42 minutes
- D 54 minutes

Answer: D

**Question 54**

**Why is nichrome alloy used for making heating elements of electrical appliances such as electric iron, toaster, etc.?**

- A All the options
- B Nichrome does not burn easily
- C Nichrome does not undergo oxidation easily
- D Nichrome has high resistivity

Answer: A

**Question 55**

**Earthquake produces \_\_\_\_\_ waves before the main shock waves which alert some animals.**

- A Echo

- B Ultrasound
- C Normal sound
- D Infrasound

Answer: D

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### Question 56

The two hands of a clock will be together between 7 AM and 8 AM at:

- A 40 minutes past 7 AM
- B  $38\frac{2}{11}$  minutes past 7 AM
- C 7:45 PM
- D  $38\frac{9}{11}$  minutes past 7 AM

Answer: B

### Question 57

If '+' means '×', '-' means '+', '×' means '÷' and '÷' means '-', then,

$$9 \div 5 + 4 - 4 \times 2 = ?$$

- A -9
- B 2
- C -3
- D 3

Answer: A

### Explanation:

$$9 \div 5 + 4 - 4 \times 2$$

Given

'+' means '×', '-' means '+', '×' means '÷' and '÷' means '-'

now equation

$$9 - 5 \times 4 + 4 \div 2$$

$$9 - 20 + 2$$

$$-9$$

### Question 58

What is the pH of basic solution?

- A 7
- B less than 7
- C 3

D Greater than 7

Answer: D

## 10 RRB JE Mocks-Tests Rs.117

Question 59

In a hydro-power plant, which energy is converted into electrical energy ?

A The potential energy of water stored in a tall reservoir

B The chemical energy of water

C The heat energy of water

D The sound energy of water flow

Answer: A

Question 60

The square of a number ends in 4. Then its cube ends in-

A 8

B 4

C 6

D 2 or 8

Answer: D

Question 61

If cost price of 12 books is equal to the selling price of 10 books, then what is the profit percent?

A 10%

B 18%

C 25%

D 20%

Answer: D

## RRB General Science Notes (Download Pdf)

Question 62

Which of the following bears flowers and fruits only once in its lifetime?

A Peach

B Banana

C Guava

D Fig

Answer: B

**Question 63**

With which of the following is Article 21 A of Indian Constitution associated?

- A Right to education
- B Protection of interests of minorities
- C Protection of life and personal liberty
- D Freedom to manage religious affairs

Answer: A

**Question 64**

An example for a vector quantity is-

- A Length
- B Momentum
- C Speed
- D Distance

Answer: B

**RRB GK Material (Download Pdf)**

**Question 65**

Find the number of factors of any prime number.

- A 2
- B 1
- C 3
- D 0

Answer: A

**Question 66**

Read the following information carefully and answer the question given below.

Six actors—U, V, W, X, Y and Z are standing in one row and six actress—N, O, P, Q, R, S are standing in another row in such a way that each actress faces one actor, not necessarily in the same order. N is to the immediate right of the actress who is facing Y the actor at the extreme right. Only V is between X and Y. Z is to the immediate left of U and to the immediate right of W. P is facing U and is to the immediate left of O. S is third to the left of Q.

Who among the following is standing between S and R?

- A N
- B P
- C O

D Q

Answer: A

Explanation:

N is to the immediate right of the actress who is facing Y the actor at the extreme right

				N	
					Y

Only V is between X and Y. Z is to the immediate left of U and to the immediate right of W

				N	
W	Z	U	X	V	Y

P is facing U and is to the immediate left of O. S is third to the left of Q.

Q	O	P	S	N	R
W	Z	U	X	V	Y

Question 67

Which word will best complete the relationship given below?

Light : Blind :: Speech : ?

- A Language
- B Voice
- C Tongue
- D Dumb

Answer: D

## RRB NTPC Previous Papers (Download PDF)

Question 68

In this question, a statement is given followed by four conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Rome was not built in a day.

Conclusions:

- I. The Romans were lazy, they could not work in time.
- II. It took about twelve years to build Rome.
- III. The Romans did not have sophisticated equipment and infrastructure to build a city like Rome.
- IV. It took years of patience, hard work and determination to construct a city like Rome.

- A Only conclusion IV follows
- B Only conclusion II follows
- C Only conclusion III follows
- D Only conclusion I follows

Answer: A

Explanation:

Only conclusion IV follows

It took years of patience, hard work and determination to construct a city like Rome.

Conclusion 1 showing the negative meaning that's why not follow

conclusion 2 also wrong because timeline not mention in statement

conclusion 3 also wrong because in statement regarding equipment not mentioned

**Question 69**

**Who among the following was appointed the Ambassador of India to Maldives in 2019?**

- A Navtej Sarna
- B Ruchi Ghanashyam
- C Sandeep Kumar
- D Sunjay Sudhir

**Answer: D**

**Question 70**

**What is the SI unit of wavelength?**

- A Hertz
- B Metre
- C Kilogram
- D Second

**Answer: B**

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**Question 71**

**With which of the following sports is Tiger Woods associated?**

- A Tennis
- B Boxing
- C Golf
- D Table tennis

**Answer: C**

**Question 72**

**The frequency of a sound wave is 25 Hz and its wavelength is 4 m. What is the time taken by the sound wave to travel a distance of 200 m ?**

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



**Answer: D**

**Explanation:**

Since we know that :-

$$V=f\lambda$$

By using the above formula we will find velocity (v):-

$$V=25\times 4$$

$$V=100\text{m/s}$$

So as we know that:-

$$V = \frac{S}{T}$$

Therefore:-

$$T = \frac{S}{V}$$

By substituting the values in above equation:

$$T = \frac{200}{100}$$

$$T=2\text{seconds}$$

**Question 73**

**One pipe works three times as fast as another. The two pipes together can fill a tank in 26 minutes. By working alone, how long will the slower pipe take to fill the tank?**

- A 54 minutes
- B 124 minutes
- C 78 minutes
- D 104 minutes

**Answer: D**

## RRB NTPC Free Mock Tests

**Question 74**

**The prolongation of the backbone beyond the trunk of the body is called the-**

- A Spine
- B Fin
- C Wing
- D Tail

**Answer: D**

**Question 75**

**When did the term 'Sustainable Development' come into existence?**

- A 1980
- B 1978
- C 1987

D 1992

Answer: C

Question 76

Complete the series.

1, 6, 15, 28, 45, (...)

A 56

B 57

C 63

D 66

Answer: D

## RRB JE Previous Papers ( Download Pdf)

Question 77

Find the missing number in the following series.

81, 63, 49, 35, (...), 15

A 25

B 18

C 24

D 39

Answer: A

Question 78

Find the Simple Interest on Rs.5000 at 6.25% per annum from 5<sup>th</sup> February 2017 to 19<sup>th</sup> April 2017.

A Rs.64

B Rs.80

C Rs.48.50

D Rs.62.50

Answer: D

**Explanation:**

Always remember that the day on which money is deposited is not counted while the day on which money is withdrawn is counted.

So lets calculate the number of days now,

Time = (23+31+19) days =  $\frac{73}{365}$  years =  $\frac{1}{5}$  years

P = 2000

R = 25/4%=6.25%

$SI = \frac{P \times (R) \times (T)}{100}$

$$SI = \frac{5000 \times (6.25) \times (\frac{1}{5})}{100}$$

$$SI = 50 \times 1.25$$

$$SI = 62.5$$

**Question 79**

The mass of an atom resides in \_\_\_\_\_ of the atom.

- A Nucleus
- B Vacant space
- C Electron cloud
- D Proton cloud

**Answer: A**

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**Question 80**

Which state government has recently launched the Nirman Kusuma programme?

- A Odisha
- B Sikkim
- C Rajasthan
- D Punjab

**Answer: A**

**Question 81**

Out of 40 students, 15 are boys. In a test, the mean marks of the class is 75 and the average marks of the girls is 72. What is the average marks of boys?

- A 82
- B 74
- C 76
- D 80

**Answer: D**

**Question 82**

If  $\frac{(0.29+0.25+0.01)}{0.005} = a\%$ , then find the value of 'a'.

- A 500
- B 11000
- C 5000
- D 110

Answer: B

## Daily Free RRB Online Test

### Question 83

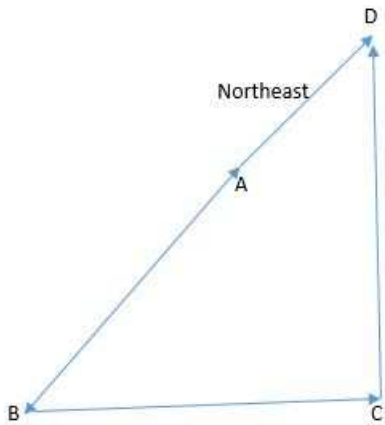
B is to the south west of A, C is to the east of B and south east of A, and is also to the south of D which is in line with B and A. What is the direction of D with respect to A?

- A North
- B North east
- C South east
- D East

Answer: B

### Explanation:

As per the below diagram we get that D is to the north east of A



### Question 84

The chemical properties of the members of the homologous series are-

- A Different
- B Similar
- C Various
- D Not similar

Answer: B

### Question 85

Scurvy is caused by deficiency of-

- A Vitamin A
- B Vitamin C

C Vitamin B1

D Vitamin B2

Answer: B

## RRB Group-D Previous Papers

### Question 86

The elements in the compound potassium sulphate are-

A Potassium

B All of the options

C Sulphur

D Oxygen

Answer: B

### Question 87

If A and B are complementary angles, then find the value of  $\cos A \cos B - \sin A \sin B$ .

A 1

B 0

C  $\frac{1}{2}$

D -1

Answer: B

#### Explanation:

If A and B are complementary angles then

$$A+B = 90$$

$$\cos A \cos B - \sin A \sin B.$$

we know that

$$\cos(A + B) = \cos A \cos B - \sin A \sin B.$$

$$\cos(A+B)$$

put value  $A+B=90$

$$\cos 90 = 0$$

### Question 88

What is Compound Interest on Rs.32000 at 25% for 2 years?

A Rs.18000

B Rs.15625

C Rs.12625

D Rs.16000

Answer: A

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### Question 89

Find the value of  $(100)^{\frac{1}{2}} \times (0.001)^{\frac{1}{3}} - (0.0016)^{\frac{1}{4}}$

- A  $\frac{4}{5}$
- B  $\frac{1}{5}$
- C  $\frac{2}{5}$
- D  $\frac{3}{80}$

Answer: A

### Question 90

In a code, 'EDITION' is written as 'IDETNOI'. How will 'MEDICAL' be written in that code?

- A DIEMCAL
- B DEMILAC
- C CADILEM
- D LACIMED

Answer: B

### Explanation:

'EDITION' is written as 'IDETNOI'

The pattern followed is that the word is divided into three parts, first three letters, middle letter and the last three letters, and in the code, the first three letters are swapped, then the middle letter is written as it is, then again the last three are swapped.

Eg : EDI T ION : IDE T NOI = IDETNOI

Similarly, MEDICAL : (DEM) I (LAC) = **DEMILAC**

=> Ans - (B)

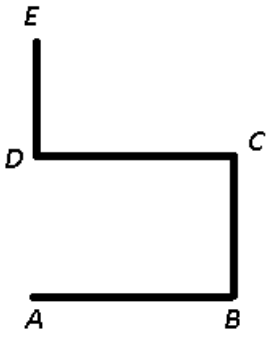
### Question 91

A girl ran from her home towards east direction and took a left turn. Again she turned left and turned right. How many turns she did towards north and west?

- A Three turns
- B One turn
- C Four turns
- D Two turns

Answer: A

### Explanation:



Let the girl ran from point A towards east direction and reached B before she took a left turn and moved *northwards* to reach C. Again she turned left and travelled towards *west* to reach D and finally turned right and moved in *north* direction.

Thus, she turned towards north and west for a total of **3 times**.

=> Ans - (A)

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### Question 92

Find the ODD one out from the given options.

- A FPILG
- B ISLOJ
- C AKDGB
- D LTOQM

Answer: D

#### Explanation:

(A) : F (+10) = P (-7) = I (+3) = L (-5) = G

(B) : I (+10) = S (-7) = L (+3) = O (-5) = J

(C) : A (+10) = K (-7) = D (+3) = G (-5) = B

(D) : L (+8) = T (-5) = O (+2) = Q (-4) = M

=> Ans - (D)

### Question 93

Which force is exerted by liquids on objects moving through them?

- A Force of gravity
- B Magnetic force
- C Frictional force
- D Electrostatic force

Answer: C

### Question 94

\_\_\_\_\_ is the official language of Jharkhand.

- A Malayalam
- B Hindi

C Kannada

D Tamil

Answer: B

## 10 RRB JE Mocks-Tests Rs.117

### Question 95

Raj walks 10 m north from his house, turns left and walks 25 m, again turns left and walks 40 m, then turns right and walks 5 m to reach the school. In which direction is the school from his house?

A North west

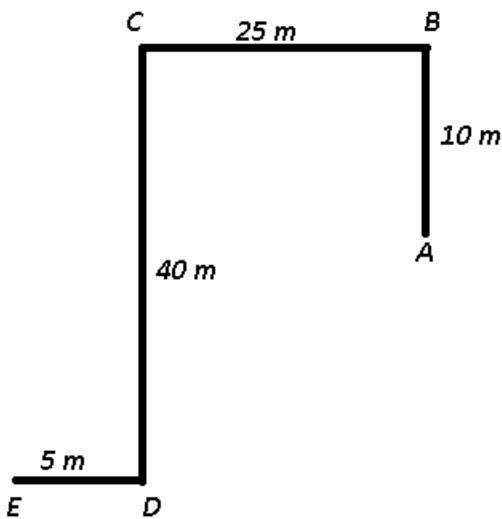
B South east

C North east

D South west

Answer: D

Explanation:



Raj starts from his house A and walks 10 m north from his house to reach B, then he turns left and walks 25 m towards west to reach C, again he turns left and walks 40 m southwards, finally he turns right and walks 5 m to reach the school at point E.

Thus, E is **south-west** of A.

=> Ans - (D)

### Question 96

Find the missing number in the following series.

3, 6, 11, (...), 27, 38

A 16

B 18

C 20

D 22

Answer: B

Explanation:



Consecutive odd numbers are added.

$$3 + 3 = 6$$

$$6 + 5 = 11$$

$$11 + 7 = 18$$

$$18 + 9 = 27$$

$$27 + 11 = 38$$

=> Ans - (B)

**Question 97**

**Complete the series.**

**885, 870, 855, 840,(...)**

**A** 855

**B** 835

**C** 815

**D** 825

**Answer: D**

**Explanation:**

15 is subtracted from each number.

$$885 - 15 = 870$$

$$870 - 15 = 855$$

$$855 - 15 = 840$$

$$840 - 15 = 825$$

=> Ans - (D)

## RRB General Science Notes (Download Pdf)

**Question 98**

**Which of the following is an example of insoluble dietary fiber?**

**A** Psyllium

**B** Inulin

**C** Cellulose

**D** Pectin

**Answer: C**

**Question 99**

**An imaginary straight line passing through the two centres of curvature and the optic centre of the lens is called-**

**A** Aperture of the lens

**B** Radius of curvature

**C** Focal length f

D Principal axis

Answer: D

Question 100

Conditions for two figures to be similar:

- 1) They are equiangular.
- 2) Their corresponding sides are proportional.
- 3) They are congruent.

A Only 2

B Both 1 and 2

C Only 3

D Only 1

Answer: B

Explanation:

For two figures to be similar, they must have equal angles and the corresponding sides should be proportional.

=> Ans - (B)

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