



## RRB NTPC 28 March 2016 Shift 1

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# RRB NTPC 28 March 2016 Shift 1

## Instructions

For the following questions answer them individually

### Question 1

Find the odd one out:

Ostrich, Crow, Pigeon, Sparrow.

- A Ostrich
- B Pigeon
- C Crow
- D Sparrow

Answer: A

Explanation:

Ostrich is odd because ostrich can not fly and Crow, Pigeon, Sparrow fly.

## RRB NTPC Previous Papers (Download PDF)

### Question 2

Simplify:  $\sqrt{(1 - \sin^2 \theta) \div (1 - \cos^2 \theta)}$

- A  $\cot \theta$
- B  $\tan \theta$
- C  $\sec \theta$
- D  $\operatorname{cosec} \theta$

Answer: A

Explanation:

$$\sqrt{(1 - \sin^2 \theta) \div (1 - \cos^2 \theta)}$$

$$\sqrt{\frac{\cos^2 \theta}{\sin^2 \theta}} = \frac{\cos \theta}{\sin \theta} = \cot \theta$$

### Question 3

Pick the odd one out:

28, 44, 68, 80, 92

- A 28
- B 44
- C 80
- D 92

Answer: D

Explanation:

Option D i.e 92 is the correct answer as.

$$2 + 8 = 10$$

$$4 + 4 = 8$$

$$6 + 8 = 14$$

$$8 + 0 = 8 \text{ but}$$

$$9 + 2 = 11$$

**Question 4**

How much is one decalitre?

A 10 kilolitre

B 10 litre

C 100 litre

D 10 centilitre

**Answer: B**

## RRB NTPC Free Mock Tests

**Question 5**

Which river used to be called the 'Sorrow of Bengal'?

A Brahmaputra

B Hooghly

C Bhagirathi

D Damodar

**Answer: D**

**Question 6**

If TEACHER: BOOKS, DOCTOR: ?

A Chalk

B Cycle

C Stethoscope

D Apron

**Answer: C**

**Explanation:**

Teacher teaches with book in the same way Doctor checks with Stethoscope.

**Question 7**

In BRICS, which country is denoted by 'B'?

A Bangladesh

B Belgium

C Brazil

D Bahrain

Answer: C

## RRB JE Previous Papers ( Download Pdf)

### Question 8

Mrinalini Sarabhai passed away recently. Who was she?

A Film Actress

B Scientist

C Classical Dancer

D Playback Singer

Answer: C

### Question 9

Mohan is taller than Rohan but shorter than Farhan. Kannan is shorter than Mohan but taller than Rohan. Shankar is taller than Rohan and Farhan. Who is the tallest?

A Mohan

B Farhan

C Shankar

D Kannan

Answer: C

### Explanation:

According to the question,

Farhan > Mohan > Rohan -----I

Mohan > Kannan > Rohan -----II

Shankar > Rohan, Farhan -----III

From I, II and III we get,

Shankar > Farhan > Mohan > Kannan > Rohan

Then Shankar is tallest among them.

### Question 10

In a running race, if you overtake the last but one contestant, which position are you in?

A Last

B Second from last

C Third from last

D Fourth from last

**Answer: B**

**Explanation:**

If I overtake the last person next to me then my position will be second from last.

## RRB JE Free Mock Test

**Question 11**

**What was the name of Maharana Pratap's horse?**

- A Bulbul
- B Chetak
- C Hayagriva
- D Badal

**Answer: B**

**Question 12**

**Aman and Ajay can build a wall in 9 days and 12 days respectively. In how many days can they finish the work if they work together?**

- A  $5\frac{1}{7}$
- B  $11\frac{1}{2}$
- C 2
- D 7

**Answer: A**

**Explanation:**

Aman's 1 day work =  $\frac{1}{9}$

Ajay's 1 day work =  $\frac{1}{12}$

Both's 1 day work =  $\frac{1}{9} + \frac{1}{12} = \frac{7}{36}$

So, both can do the work in  $5\frac{1}{7}$  days.

**Question 13**

**Who is thought to have invented the thermo scope?**

- A Galileo Galilei
- B Copernicus
- C Isaac Newton
- D J. Kepler

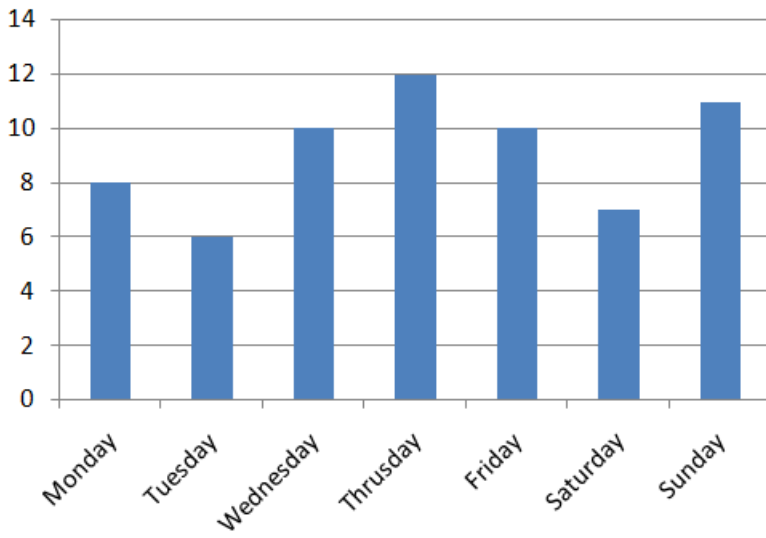
**Answer: A**

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Question 14

The number of bicycles sold by a shopkeeper in a particular week is shown below. How many bicycles were sold from Thursday to Sunday?

Sales



- A 39
- B 38
- C 40
- D 36

Answer: C

Explanation:

Number of bicycles sold from Thursday to Sunday =  $12 + 10 + 7 + 11 = 40$ .

Question 15

Who is a hacker?

- A A person who sells goods in the street.
- B A person who uses computers to gain unauthorized access to data
- C A person who only sells computers online.
- D A person who records phone calls.

Answer: B

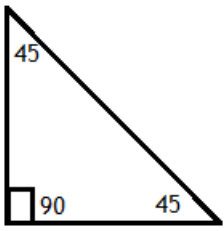
Question 16

What is the measure of the two equal angles of a right isosceles triangle?

- A  $30^\circ$
- B  $45^\circ$
- C  $60^\circ$
- D  $90^\circ$

Answer: B

Explanation:



In right isosceles triangle one angle is 90 degree and other two are 45 degree because two sides are equal means two corresponding angles will be equal.

## RRB Group-D Previous Papers

Question 17

Arteries carry blood, that is filled with

- A Oxygen
- B Carbon dioxide
- C Toxins
- D Lipids

Answer: A

Question 18

Which of this is not a memorial to a dead person?

- A Bibi ka Maqbara
- B Taj Mahal
- C Charminar
- D Itmad Ud Daulah

Answer: C

Question 19

Find two consecutive numbers where thrice the first number is more than twice the second number by 5.

- A 5 and 6
- B 6 and 7
- C 7 and 8
- D 9 and 10

Answer: C

Explanation:

Let the consecutive numbers be  $x$  and  $(x + 1)$

According to the question,

$$3x - 2(x + 1) = 5$$

$$3x - 2x - 2 = 5$$

$$x = 7.$$

So, two consecutive numbers is 7 and 8.

## RRB Free Videos (You Tube Channel)

### Instructions

Read following table Answer the questions below.

Amar, Babu, Cera and Diya were asked to solve a question paper with 4 multiple choice questions with choices 1,2,3,4. The answer sheet as marked by them is reproduced here.

	Amar	Babu	Cera	Diya
Q1	2	1	1	3
Q2	4	3	2	4
Q3	3	4	3	1
Q4	3	2	2	4

Babu got all answers wrong. Amar's first two answers were definitely wrong. Diya got two answers right but her fourth answer was definitely wrong. Amar and Cera each have got only one correct answer.

### Question 20

Which of Cera's question is correct?

- A Q1
- B Q2
- C Q3
- D Q4

Answer: B

Explanation:

	Amar	Babu	Cera	Diya
Q1	2 wrong	1 wrong	1 wrong	3
Q2	4 wrong	3 wrong	2	4 wrong
Q3	3 Wrong	4 wrong	3 wrong	1
Q4	3	2 wrong	2 wrong	4 wrong

Q2 answer is correct for Cera.

### Question 21

Which two answers of Diya is correct?

- A Q1 and Q2



- B Q1 and Q3
- C Q2 and Q3
- D Q3 and Q4

Answer: B

Explanation:

	Amar	Babu	Cera	Diya
<b>Q1</b>	2 wrong	1 wrong	1 wrong	3
<b>Q2</b>	4 wrong	3 wrong	2	4 wrong
<b>Q3</b>	3 Wrong	4 wrong	3 wrong	1
<b>Q4</b>	3	2 wrong	2 wrong	4 wrong

Q1 and Q3 answers of Diya is correct.

Question 22

Whose answer to Q4 is correct?

- A Amar
- B Babu
- C Diva
- D None

Answer: A

Explanation:

	Amar	Babu	Cera	Diya
<b>Q1</b>	2 wrong	1 wrong	1 wrong	3
<b>Q2</b>	4 wrong	3 wrong	2	4 wrong
<b>Q3</b>	3 Wrong	4 wrong	3 wrong	1
<b>Q4</b>	3	2 wrong	2 wrong	4 wrong

Amar answer to Q4 is correct.

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Instructions

For the following questions answer them individually

Question 23

In which State is Karla, famous for its Buddhist caves, located?

- A Maharashtra
- B Uttar Pradesh

- C Uttarakhand
- D Madhya Pradesh

Answer: A

**Question 24**

In the following number series, one missing term is shown by '?'. Choose the missing term from the options below.  
6, 12, 20, 30, ?, 56, 72

- A 40
- B 42
- C 44
- D 48

Answer: B

Explanation:

6,	12,	20,	30,	42,	56,	72
+6	+8	+10	+12	+14	+16	

**Question 25**

When was the Indian Constitution amended for the first time?

- A 1949
- B 1951
- C 1952
- D 1953

Answer: B

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**Question 26**

Circle: Circumference as Square:

- A Sides
- B Area
- C Perimeter
- D Diagonal

Answer: C

Explanation:

Circumference is the length around circle in the same perimeter is the sum of all sides of square.

**Question 27**

With which sport is Karnam Malleswari associated?

- A Tennis
- B Swimming
- C Athletics
- D Weightlifting

Answer: D

**Question 28**

Which was the first satellite to orbit our Moon?

- A Luna 2
- B Luna 10
- C Apollo 10
- D Apollo 11

Answer: B

## RRB General Science Notes (Download Pdf)

**Question 29**

What should be subtracted from 107.03 to get 96.4?

- A 1.63
- B 10.63
- C 10.53
- D 9.63

Answer: B

**Explanation:**

Let x will be subtracted.

Then,

$$107.03 - x = 96.4$$

$$x = 10.63$$

**Question 30**

Which number will be in the middle if the following numbers are arranged in descending order?

4456, 4465, 4655, 4665, 4565

- A 4456
- B 4465
- C 4565
- D 4655

Answer: C

**Explanation:**

Arrangement in descending order = 4665, 4655, 4565, 4465, 4456

Hence, middle number after arrangement = 4565.

**Question 31**

**Find the product of square root of 16 and square of 4?**

- A 8
- B 64
- C 16
- D 256

**Answer: B**

**Explanation:**

Required product =  $\sqrt{16} \times 4^2 = 4 \times 16 = 64$ .

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

**Question 32**

**Which of the following is true?**

- A 1 Gigabyte = 1024 MB
- B 1 Gigabyte = 1,000,000 Kilobytes
- C 1 Gigabyte = 10,000 MB
- D 1 Gigabyte = 100,000 KB

**Answer: A**

**Question 33**

**If 'A' is the son of 'B' and is the father of 'C', how is 'B' related to 'C'?**

- A Father
- B Son
- C Grandparent
- D Grandchild

**Answer: C**

**Question 34**

**XCVI denotes**

- A 116
- B 496
- C 96
- D 84

Answer: C

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### Question 35

World Tuberculosis (TB) day is observed on?

- A 28<sup>th</sup> March
- B 24<sup>th</sup> March
- C 24<sup>th</sup> May
- D 28<sup>th</sup> May

Answer: B

### Question 36

Unscramble the letters 'CCITRKE' to form an English word and find the fifth letter of the unscrambled word?

- A C
- B K
- C E
- D I

Answer: B

### Explanation:

After unscrambling the words 'CCITRKE' we get english word CRICKET.

Hence, 5th letter is K.

### Question 37

Which of the following are called supplementary angles?

- A Angles totalling 180°
- B Angles totalling 135°
- C Angles totalling 75°
- D Angles totalling 90°

Answer: A

### Explanation:

If sum of two angles is 180 degree then it is called supplementary angles.

## RRB NTPC Previous Papers (Download PDF)

### Question 38

Who gave the slogan 'Do or Die' during India's freedom struggle?

- A Veer Savarkar

- B Nethaji Subhas Chandra Bose
- C Mahatma Gandhi
- D Subramanya Bharati

Answer: C

**Question 39**

Rajiv said, pointing to a girl, "She is the only daughter of the father of my sister's brother". If so how is the girl related to Rajiv?

- A Mother
- B Aunt
- C Sister
- D Sister-in-law.

Answer: C

**Question 40**

A man buys 144 oranges for Rs.360 and sells them at a gain of 10%. At what rate per dozen does he sell them?

- A 25
- B 30
- C 33
- D 36

Answer: C

**Explanation:**

C.P of 144 oranges = Rs 360

Profit - 10%

$$\text{S.P of 144 oranges} = 360 \times \frac{110}{100} = \text{Rs } 396$$

$$\text{S.P of 1 dozen} = \frac{396}{144} \times 12 = \text{Rs } 33.$$

## RRB NTPC Free Mock Tests

**Question 41**

Arrange the following word in alphabetical order and find the third word?

Singer, Single, Sinister, Simple.

- A Single
- B Singer
- C Sinister
- D Simple

Answer: A

**Explanation:**

Following are the alphabetically arrangements of words.

- 1) Simple
- 2) Singer
- 3) Single
- 4) Sinister

The third word is Single.

#### Instructions

Read the following information and answer the following questions.

In a class of 40 students, 28 can speak Tamil and 30 can speak Telugu.  
All students can speak at least one of the two languages.

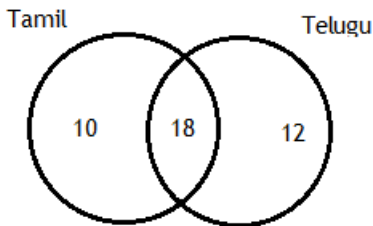
#### Question 42

Find the number of persons who can speak only Telugu?

- A 8
- B 10
- C 12
- D 14

Answer: C

Explanation:



Let  $x$  students can speak both Tamil and Telugu.

So, only Tamil =  $28 - x$

Only Telugu =  $30 - x$

According to the question,

$$(28 - x) + (30 - x) + x = 40$$

$$58 - x = 40$$

$$x = 18$$

Hence, 12 students speak only Telugu.

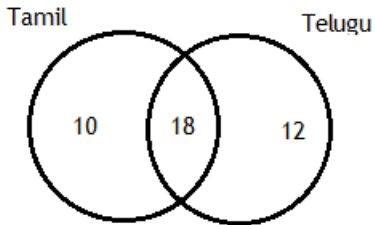
#### Question 43

Find the number of students who can speak only Tamil

- A 8
- B 10
- C 12
- D 14

Answer: B

Explanation:



Let  $x$  students can speak both Tamil and Telugu.

So, only Tamil =  $28 - x$

Only Telugu =  $30 - x$

According to the question,

$$(28 - x) + (30 - x) + x = 40$$

$$58 - x = 40$$

$$x = 18$$

Hence, 10 students speak only Tamil.

## RRB JE Previous Papers ( Download Pdf)

Question 44

Find the minimum number of students who can speak both Tamil and Telugu.

A 12

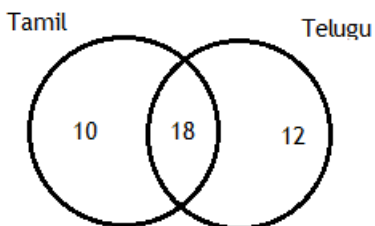
B 15

C 18

D 22

Answer: C

Explanation:



Let  $x$  students can speak both Tamil and Telugu.

So, only Tamil =  $28 - x$

Only Telugu =  $30 - x$

According to the question,

$$(28 - x) + (30 - x) + x = 40$$

$$58 - x = 40$$

$$x = 18$$

Hence, 18 students can speak both Tamil and Telugu.

**Instructions**

For the following questions answer them individually



**Question 45**

The function of the lens in our eyes is to

- A Cover the eyes
- B Send messages of images to the brain
- C Change the focal distance of the eye
- D Protects eyes from injury.

**Answer: C**

**Question 46**

How many moons does the planet Mars have?

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

**Answer: B**

## RRB JE Free Mock Test

**Question 47**

In India, who is the executive head of the its states?

- A Prime Minister
- B The President
- C The Chief justice of Supreme Court
- D The Governor

**Answer: D**

**Question 48**

The product of 2 numbers is 35828 and their HCF is 26. Find their LCM.

- A 931788
- B 689
- C 1378
- D 3583

**Answer: C**

**Explanation:**

Product of two numbers = Product of LCM and HCF

$$35828 = \text{LCM} \times \text{HCF}$$

$$35828 = \text{LCM} \times 26$$

$$\text{LCM} = \frac{35828}{26} = 1378.$$

**Question 49**

Which is the capital of Cyprus?

- A Nicosia
- B Polis
- C Lamaca
- D Araddipou

Answer: A

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**Question 50**

If your father were your mother, your mother your brother, your brother your sister and your sister your father, how would you call your sister?

- A Father
- B Mother
- C Brother
- D Sister

Answer: A

**Explanation:**

Sister is called as father in the given question so I will call sister as father.

**Question 51**

Raj scored 67, 69, 78, and 88 in 4 of his subjects. What should be his score in the 5th subject so that his average equals 80?

- A 88
- B 90
- C 96
- D 98

Answer: D

**Explanation:**

Let he score  $x$  in 5th subjects

$$\text{Average} = \frac{(67+69+78+88+x)}{5}$$

$$80 = \frac{302+x}{5}$$

$$400 = 302 + x$$

$$x = 98$$

Hence he has to score 98 in 5th subject

Question 52

Who invented Penicillin?

- A Ian Fleming
- B Alexander Fleming
- C Stephen Hawking
- D Alexander Graham Bell

Answer: B

## RRB Group-D Previous Papers

Question 53

Aruna Asaf Ali is remembered for hoisting the Indian National Congress Flag at

- A Non-cooperation Movement.
- B Civil Disobedience Movement
- C Self-rule Movement
- D Quit India Movement

Answer: D

Question 54

In 2014, the ..... Lok Sabha was elected

- A 16<sup>th</sup>
- B 19<sup>th</sup>
- C 14<sup>th</sup>
- D 23<sup>rd</sup>

Answer: A

Question 55

Which boxer is nicknamed 'The Real Deal'?

- A Mike Tyson
- B Mohammed Ali
- C Evander Holyfield
- D Joe Louis

Answer: C

RRB Free Videos (You Tube Channel)

**Question 56**

If Christmas was on Sunday in 2011, what day will it be in 2012?

- A Monday
- B Tuesday
- C Wednesday
- D Thursday

**Answer:** B

**Instructions**

Read the following information and answer the following questions.

Five girls are sitting in front, facing you.

Ruhi and Manali respectively are sitting to the right and left of Urja.

Dhwani is sitting between Manali and Tanya

**Question 57**

How many girls are there between Dhwani and Ruhi?

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

**Answer:** B

**Explanation:**

Sitting arrangement of five girls are = Tanya, Dhwani, Manali, Urja, Ruhi

Two girls are between Dhwani and Ruhi.

**Question 58**

Who is sitting in the middle?

- A Dhwani
- B Urja
- C Manali
- D Tanya

**Answer:** C

**Explanation:**

Sitting arrangement of five girls are = Tanya, Dhwani, Manali, Urja, Ruhi

Manali is sitting in the middle.

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**Question 59**

Who is sitting to the immediate right of Tanya?

- A Ruhi
- B Manali
- C Dhvani
- D Urja

**Answer:** C

**Explanation:**

Sitting arrangement of five girls are = Tanya, Dhvani, Manali, Urja, Ruhi  
Dhwani is sitting right to Tanya.

**Instructions**

For the following questions answer them individually

**Question 60**

**The Rowlatt Act was passed in which year?**

- A 1919
- B 1921
- C 1923
- D 1916

**Answer:** A

**Question 61**

**Blunt: Sharp as Sow : .....**

- A Reap
- B Seeds
- C Farmer
- D Crop

**Answer:** A

**Explanation:**

Blunt is cutting implement which is related to sharp and sow means to plant which is related to reap means to cut whatever you sow.

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**Question 62**

**Which among the below choices can cause a Tsunami (also known as harbor wave)**

- A Under sea earthquakes
- B Typhoon
- C Volcanic eruptions on land
- D Drought

**Answer:** A

**Question 63**

Find the odd one out.

1, 8, 27, 36, 125, 216

- A 1
- B 8
- C 36
- D 216

**Answer: C**

**Explanation:**

1, 8, 27, 36, 125, 216

$$1^3 = 1, 2^3 = 8, 3^3 = 27, 4^3 = 64, 5^3 = 125, 6^3 = 216$$

So odd one 36.

**Question 64**

Calculate the amount on Rs. 37,500 @ 8% p.a compounded half yearly for  $1\frac{1}{2}$  years.

- A Rs. 42,182.40
- B Rs. 42,000
- C Rs. 42,120
- D Rs. 42,812.40

**Answer: A**

**Explanation:**

P = Rs 37500, T = 3 half years, R =  $\frac{8}{2} = 4\%$  half yearly

$$A = P \left(1 + \frac{r}{100}\right)^n$$

$$A = 37500 \left(1 + \frac{4}{100}\right)^3$$

$$A = 37500 \times \frac{104}{100} \times \frac{104}{100} \times \frac{104}{100}$$

A = Rs 42182.40

**RRB General Science Notes (Download Pdf)**

**Question 65**

How many prime numbers are there between 50 and 100?

- A 6
- B 10
- C 13
- D 5

**Answer: B**

**Explanation:**

All prime numbers between 50 and 100 = (53, 59, 61, 67, 71, 73, 79, 83, 89, 97)

**Question 66**

**What percent of 1 hour is 1 minute and 12 seconds?**

- A 2%
- B 12%
- C 11%
- D 1.2%

**Answer: A**

**Explanation:**

1 min 12 sec = 72 sec

1 hour = 3600 sec

Required percentage =  $\frac{72}{3600} \times 100 = 2\%$

**Question 67**

**Find the odd one out : External Hard drive, Keyboard, Digital camera, Compact Disc**

- A External Hard drive
- B Keyboard
- C Digital camera
- D Compact Disc

**Answer: B**

**Explanation:**

Keyboard is input device and rest are not.

**RRB GK Material (Download Pdf)**

**Question 68**

**Three bells ring at intervals of 15, 20 and 30 minutes respectively. If they all ring at 11.00 a.m. together, at what lime will ' they next ring together?**

- A 11.30 a.m.
- B 12 noon
- C 12.30 p.m.
- D 1.00 p.m.

**Answer: B**

**Explanation:**

LCM of 15, 20, 30 = 60

After each 60 minutes they will ring together.

Hence they next ring together at 12 noon .

**Question 69**

**When did Vasco da Gama land in India?**

- A 1492
- B 1498
- C 1948
- D 1857

**Answer: B**

**Question 70**

**Five students Priyanka, Mary, Sunil, Asha and Ryan are standing in a line. Priyanka and Sunil are standing ahead of Ryan. Sunil is standing between Ryan and Asha. Between Sunil and Mary, Ryan is standing. Who is the first in the line?**

- A Asha
- B Sunil
- C Ryan
- D Priyanka

**Answer: D**

**Explanation:**

According to the given situation correct arrangements are

Priyanka, Asha, Sunil, Ryan, Mary

So, Priyanka will be first.

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**Question 71**

**From the following which is an example of a single-celled organism?**

- A Protozoa
- B Anthropods
- C Echinoderms
- D Annelids

**Answer: A**

**Question 72**

**A's height is  $\frac{5}{8}^{th}$  of B's height. What is the ratio of B's height to A's height?**

- A 5:8
- B 3:8
- C 5:3
- D 8:5



**Answer: D**

**Explanation:**

$$A = \frac{5B}{8}$$

$$\frac{A}{B} = \frac{5}{8}$$

$$B:A = 8:5$$

**Question 73**

Which of the following is also called Marsh Gas?

A Propane

B Ethane

C Methane

D Butane

**Answer: C**

## RRB NTPC Previous Papers (Download PDF)

**Question 74**

A man travelling by bus finds that the bus crosses 35 electric poles in 1 minute and the distance between 2 poles is 50 metres. Find the speed of the bus.

A 112 km/hr.

B 102 km/hr.

C 110 km/hr.

D 120 km/hr.

**Answer: B**

**Explanation:**

$$\text{Total distance between 35 poles} = 34 \times 50 = 1700$$

$$\text{Speed} = \frac{1700}{60} \times \frac{18}{5} = 102 \text{ km/h}$$

**Question 75**

If AMERICA = 1734651, INDIA = 68961, how will you write CANADA?

A 719181

B 518191

C 519581

D 715148

**Answer: B**

**Explanation:**

Pattern is A = 1, M = 7, E = 3 and so on

So, CANADA = 518191

**Question 76**

Two-thirds of children are in the age group 1-12 years. Of this, if three-fourths are in the age group of 1-8 years find the fraction of children in the age group of 9-12 years?

- A 1/3
- B 1/4
- C 1/6
- D 1/2

**Answer:** C

**Explanation:**

$$1 \text{ to } 12 \text{ years} = \frac{2}{3}$$

$$1 \text{ to } 8 \text{ years} = \frac{3}{4} \times \frac{2}{3} = \frac{1}{2}$$

$$9 \text{ to } 12 \text{ years} = \frac{2}{3} - \frac{1}{2} = \frac{1}{6}$$

**RRB NTPC Free Mock Tests**

**Question 77**

Where can you find the Golden Temple of Dambulla?

- A Amritsar
- B Sri Lanka
- C Indonesia
- D Malaysia

**Answer:** B

**Question 78**

If COW=41, GOAT=43, then DOG=?

- A 47
- B 38
- C 25
- D 26

**Answer:** D

**Explanation:**

The pattern is sum of alphabetical positions

$$\text{COW} = 3+15+23=41 \text{ and } \text{GOAT} = 7+15+1+20=43$$

$$\text{DOG} = 4+15+7 = 26$$

**Question 79**

In a company 10 employees get a salary of Rs. 36,200 each and 15 employees get a salary of Rs. 33,550 each. What is the average salary per employee?

- A 34,875
- B 34,610
- C 27,900
- D 36,410

**Answer: B**

**Explanation:**

$$\text{Average salary} = \frac{(36200 \times 10) + (33550 \times 15)}{25}$$

$$\frac{865250}{25} = 34610$$

## RRB JE Previous Papers ( Download Pdf)

**Question 80**

Ram is 4 times his son's age today. Five years hence, Ram will be thrice his son's age. Find their current ages?

- A 60,15
- B 40,10
- C 20,5
- D 32,8

**Answer: B**

**Explanation:**

Let the son's age be x years then Ram's age will be 4x years

According to the question,

$$3(x+5) = 4x + 5$$

$$3x + 15 = 4x + 5$$

$$x = 10$$

Hence, Son's age = 10 and Ram's age = 40 years.

**Question 81**

Meena took a car loan for Rs.275,000 from the bank. She paid an interest@ 8% p.a. and settled the account after 3 years. At the time of settlement she gave her old scooter to the bank plus Rs335,000. What price did the scooter fetch?

- A 60,000
- B 6,000
- C 66,000
- D 6,600

**Answer: B**

**Explanation:**

$$S.I = \frac{P \times T \times R}{100} = \frac{275000 \times 8 \times 3}{100} = 66000$$

Amount she has to pay after 3 years = 275000 + 66000 = 341000

Now she pays 335000 and scooter

So, scooter price =  $341000 - 335000 = 6000$

**Question 82**

The distance between two places, A and B, is 300 km. Two riders, on scooters start simultaneously from A and B towards each other. The distance between them after 2.5hrs is 25 km. If the speed of one scooter is 10 km/hr more than the other, find the speed of each scooter in km/hr.

- A 50 and 60
- B 30 and 40
- C 40 and 50
- D 60 and 70

**Answer:** A

**Explanation:**

Let speed of scooter starting from A be  $x$  km/h and from B be  $(x + 10)$  km/h

Relative speed =  $x + x + 10 = (2x + 10)$  km/h

Distance covered in 2.5 hours =  $2.5 \times (2x + 10) = 5x + 25$

According to the question,

$$5x + 25 = 300 - 25$$

$$5x = 250$$

$$x = 50$$

So, speed of scooters are 50 km/h and 60 km/h.

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**Question 83**

Emperor Ashoka was the successor of?

- A Chandragupta Maurya
- B Bindusara
- C Susima
- D Dasharatha

**Answer:** B

**Question 84**

The dance form Kuchipudi oriinated from which part of India?

- A Tamil Nadu
- B Maharashtra
- C Andhra Pradesh
- D Odisha

**Answer:** C

**Question 85**

**Who is believed to have built the Konark Temple?**

- A Raja Kulothunga
- B Narasimha Deva
- C Vishnugopa
- D Mahipala

**Answer: B**

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**Question 86**

**A seven-sided polygon is called**

- A Nonagon
- B Hexagon
- C Heptagon
- D Octagon

**Answer: C**

**Explanation:**

A polygon in which there is seven sides known as Heptagon.

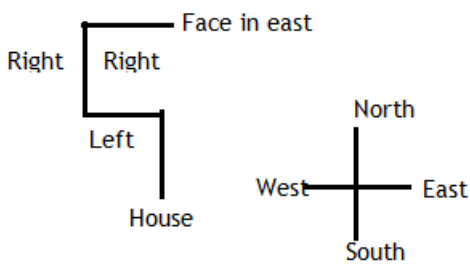
**Question 87**

**Julia started walking towards North direction from her house. After a while she turned left and later on turned right. She further turned right. Which direction is she facing now?**

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

**Answer: A**

**Explanation:**



Question 88

Read statements 1 and 2. Also read the conclusions 3 and 4 drawn from the statements.

Statement:

1. Some birds are Donkeys.
2. All donkeys are stupid.

Conclusions:

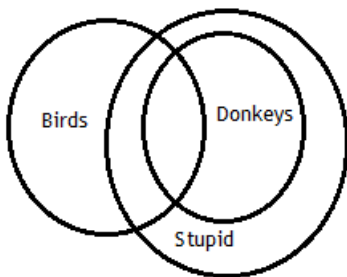
3. All birds are stupid.
4. Some birds are stupid.

Choose which of the conclusions are right.

- A Only 3 is correct
- B Only 4 is correct
- C Both 3 and 4 are correct
- D Neither 3 nor 4 is correct

Answer: B

Explanation:



3. All birds are stupid false because from the statement and diagram some birds are stupid is true.
4. Some birds are stupid true.

## RRB Group-D Previous Papers

Question 89

What is the desert adjoining the Thar desert called in Pakistan?

- A Gobi
- B Cholistan
- C Sukkur
- D Mirpur

Answer: B

Question 90

If  $\cot A = \frac{12}{5}$  then  $(\sin A + \cos A) \times \operatorname{cosec} A$  is?

- A 12/5
- B 17/5
- C 11/5
- D 2

Answer: B

Explanation:

$$\cot A = \frac{12}{5}$$

$$\frac{B}{P} = \frac{12}{5}$$

$$H^2 = 12^2 + 5^2 = 169$$

$$H = 13$$

$$(\sin A + \cos A) \times \operatorname{cosec} A$$

$$\left(\frac{P}{H} + \frac{B}{H}\right) \times \frac{H}{P}$$

$$\left(\frac{5}{13} + \frac{12}{13}\right) \times \frac{5}{13} = \frac{17}{13} \times \frac{5}{13} = \frac{17}{5}$$

Question 91

Science of the study of preserved remains or traces of Animals, plants, and other organisms from the remote past is called

- A Anthropology
- B Archaeology
- C Paleontology
- D Pharmacology

Answer: C

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Question 92

If  $(a^2 - b^2) \div (a + b) = 25$ , find  $a - b$  ?

- A 15
- B 18
- C 25
- D 30

Answer: C

Explanation:

$$(a^2 - b^2) \div (a + b) = 25$$

$$\frac{(a-b)(a+b)}{(a+b)} = 25$$

$$(a - b) = 25$$

Question 93

Atomic weight of an element is compared with which of the following to get the atomic weight of that element?

- A Oxygen
- B Carbon
- C Hydrogen

D Nitrogen

Answer: C

Question 94

What is the shape of the Earth?

A Perfect hemisphere

B Mostly flat

C Perfect Sphere

D Oblate Sphere

Answer: D

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Question 95

Which two teams played the first official international cricket match?

A England and Australia

B England and West Indies

C USA and Canada

D Australia and India

Answer: C

Question 96

Which is the smallest continent?

A Australia

B Antarctica

C Africa

D South America

Answer: A

Question 97

A man sells a table for Rs. 4200 at 25% loss. At what price must he sell to get a profit of 25%?

A 1,400

B 8,400

C 7,000

D 5,600

Answer: C



**Explanation:**

S.P = 4200, Loss = 25%

$$C.P = 4200 \times \frac{100}{75} = 5600$$

Profit = 25%

$$\text{Then S.P} = 5600 \times \frac{125}{100} = 7000$$

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**Question 98**

As the frequency of a wave increases, what happens to its wavelength?

- A It increases
- B It remains same
- C It decreases
- D There is no connection between the two

**Answer: C**

**Question 99**

A tank can be filled by two taps X and Y in 5 hrs and 10 hrs respectively while another tap Z empties the tank in 20 hrs. In how many hours can the tank be filled if all 3 taps are kept open?

- A 5
- B 4
- C 7
- D 8

**Answer: B**

**Explanation:**

$$1 \text{ hour work of X, Y and Z} = \frac{1}{5} + \frac{1}{10} - \frac{1}{20} = \frac{5}{20} = \frac{1}{4}$$

So, they will take 4 hours to fill the tank.

**Question 100**

Anil bought 100 eggs at Rs.6 per egg. He sold 25 eggs at 10% profit, another 25 eggs at 25% loss and the balance 50 eggs at 20% profit. Find the overall profit or loss percent Anil made?

- A 6.25% loss
- B 6.25% profit
- C 8% profit
- D 12% loss

**Answer: B**

**Explanation:**

$$C.P \text{ of } 100 \text{ eggs} = 100 \times 6 = 600$$

$$C.P \text{ of } 25 \text{ egg} = 25 \times 6 = 150 \text{ Profit} = 10\%$$

$$\text{S.P of 25 egg} = 150 \times \frac{110}{100} = 165$$

C.P of 25 eggs = Rs 150, loss = 25%

$$\text{S.P of 25 eggs} = 150 \times \frac{75}{100} = 112.5$$

C.P of 25 eggs = 300, profit = 20%

$$\text{S.P of 50 eggs} = 300 \times \frac{120}{100} = 360$$

Total S.P = 165 + 112.5 + 360 = 637.5

Profit = 637.5 - 600 = 37.5

$$\text{Profit \%} = \frac{37.5}{600} \times 100 = 6.25\%$$

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