



## RRB NTPC 29 March 2016 Shift 1

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## RRB NTPC 29 March 2016 Shift 1

### Instructions

For the following questions answer them individually

### Question 1

Find the odd one out : Chicken pox, Rubella, Flu, Meningitis

- A Chicken pox
- B Rubella
- C Flu
- D Meningitis

**Answer:** D

### Explanation:

Chicken pox, Rubella and Flu are caused by Virus whereas Meningitis is caused by bacteria.

Hence Meningitis is the odd one.

## RRB NTPC Previous Papers (Download PDF)

### Question 2

If  $a = \times$ ,  $b = \div$  and  $c = +$ , find the value of  $7a5c1b6$

- A 4
- B 6
- C 35.16
- D 7

**Answer:** C

### Explanation:

$7a5c1b6$

$$7 \times 5 + 1 \div 6$$

$$35 + \frac{1}{6} = 35.16$$

### Question 3

Din-i-Ilahi was promoted by

- A Babur
- B Bahadur Shah
- C Akbar
- D Humayun

**Answer:** C

#### Question 4

At a telephone exchange, three phones ring at intervals of 20 sec, 24 sec and 30 seconds. If they ring together at 11:25 a.m, when will they next ring together?

- A 11:29 a.m.
- B 11:27 am.
- C 11:51 a.m.
- D 12:29 p.m.

Answer: B

#### Explanation:

We will take the LCM of 20, 24, 30, which is 120.

It tells us that they will together after an interval of 120 seconds = 2 minutes.

So, at 11:27 a.m they will next ring together.

## RRB NTPC Free Mock Tests

#### Instructions

Read and answer the following questions

The below table gives rice production in each year

Year	Production in tons
2005	325
2006	438
2007	429
2008	258
2009	495

#### Question 5

What is the increased percentage of production in 2009 compared to year 2005?

- A 38.1%
- B 29.2%
- C 52.3%
- D 46.3%

Answer: C

#### Explanation:

$$\text{Required percentage} = \frac{(495-325)}{325} \times 100 = \frac{170}{325} \times 100 = 52.3$$

#### Question 6

What was the average production of rice in the period 2005-2009?

- A 378
- B 389

C 399

D 412

Answer: B

Explanation:

Average production of rice in the period 2005-2009 =  $\frac{(325+438+429+258+495)}{5} = 389$

Question 7

What was the decline in production in year 2008 compared to 2007?

A 40%

B 51%

C 67%

D 45%

Answer: A

Explanation:

Required percentage =  $\frac{(429-258)}{429} \times 100 = 40\%$

## RRB JE Previous Papers ( Download Pdf)

Instructions

For the following questions answer them individually

Question 8

In which year was RBI nationalized?

A 1969

B 1947

C 1949

D 1974

Answer: C

Question 9

If ! =  $\div$ , # = +, ^ =  $\times$ , the calculate the value of  $32!4^7\#5$

A 58

B 61

C 64

D 55

Answer: B

Explanation:

$32!4^7\#5$

$32 \div 4 \times 7 + 5$

61

**Question 10**

**Which is the largest fresh water lake in the World?**

- A Lake Victoria
- B Lake Erie
- C Lake Superior
- D Lake Ontario

**Answer: C**

**RRB JE Free Mock Test**

**Question 11**

**Which of the following is the name of a medieval Indian book on mathematics?**

- A Vastushastra
- B Leelavati
- C Panchadashi
- D Roopmati

**Answer: B**

**Instructions**

Read the following information and answer the following questions below.

Bindu is standing exactly in the middle of a line of girls.

Asha is 6<sup>th</sup> to the left of Bindu and Ritu is 16<sup>th</sup> to Bindu's right.

**Question 12**

**What is Asha's position in the line?**

- A 22
- B 12
- C 18
- D 11

**Answer: D**

**Explanation:**

Bindu's is in middle of the line and she is 17th from right end then she is 17th from left end.

So, total numbers of girls = 33

Asha is 6th from Bindu's left

Asha's position is  $17 - 6 = 11$ th from first.

**Question 13**

**What should be the minimum number of girls in the line?**

- A 22
- B 28
- C 33
- D 32

**Answer:** C

**Explanation:**

Bindu's is in middle of the line and she is 17th from right end then she is 17th from left end also.

So, minimum numbers of girls in the line =  $34 - 1 = 33$ .

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**Question 14**

**What is Bindu's position in the line?**

- A 11
- B 14
- C 16
- D 17

**Answer:** D

**Explanation:**

Bindu's is in middle of the line and she is 17th from right end then she will 17th from left end also.

**Instructions**

For the following questions answer them individually

**Question 15**

**Which of the following is reared for its fleece/fiber?**

- A Alpaca
- B Alabama
- C Apache
- D Alluvial

**Answer:** A

**Question 16**

**Fill in the blanks:  $\sin A = \frac{1}{\cos A}$**

- A  $\sin A$
- B  $\tan A$
- C  $\cot A$
- D  $\cos A$

**Answer:** B

**Explanation:**

$$\sin A = x \times \cos A$$

$$x = \frac{\sin A}{\cos A} = \tan A$$

## RRB Group-D Previous Papers

**Question 17**

**From where was Mangalyaan launched?**

- A Chennai
- B Sriharikota
- C Trombay
- D Gopalpur, on sea

**Answer: B**

**Question 18**

**What is the technology used in a compact disc?**

- A Electrical
- B Laser
- C Electro magnetic
- D Aeronautical

**Answer: B**

**Question 19**

**Where was paper invented?**

- A China
- B India
- C Zambia
- D Germany

**Answer: A**

## RRB Free Videos (You Tube Channel)

**Question 20**

**Which revolutionary took his own life?**

- A Khudiram Bose
- B Rash Behari Bose
- C Bhagat Singh

D Chandrashekhar Azad

Answer: D

**Question 21**

Azhar can complete a journey in 10 hours. He travels the first half of the journey at a speed of 21 km/hr. and the balance at 24 km/hr. Find the total distance in km?

- A 234
- B 225
- C 224
- D 232

Answer: C

**Explanation:**

Let time taken to travel the first half = x hr

Then time taken to travel the second half = (10 - x) hr

Distance covered in the the first half = 21x [because, distance = time\*speed]

Distance covered in the the second half = 24(10 - x)

Distance covered in the the first half = Distance covered in the the second half

According to the question,

$$21x = 24(10 - x)$$

$$21x + 24x = 240$$

$$45x = 240$$

$$x = \frac{240}{45} = \frac{16}{3}$$

$$\text{Total Distance} = 2 \times 21 \times \frac{16}{3} = 224 = 224 \text{ Km.}$$

**Question 22**

Where in the human body can you find the islets of Langerhans?

- A Small intestine
- B Pancreas
- C Stomach
- D Heart

Answer: B

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**Question 23**

Pollination by wind is called?

- A Hydrophily
- B Pollinophily
- C Anemophily



D Herbophily

Answer: C

**Question 24**

**Who wrote the National song of India?**

A Rabindranath Tagore

B Bankim Chandra Chatterjee

C Mohammed Iqbal

D Chitragupta

Answer: B

**Question 25**

**Name the official language of Brazil?**

A Portuguese

B German

C Italian

D Brazilian

Answer: A

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**Question 26**

**Where can you find the Kunchikal waterfalls?**

A Kerala

B Karnataka

C Andhra Pradesh

D Telangana

Answer: B

**Question 27**

**What is the minimum age for getting elected to the Lok Sabha?**

A 18

B 21

C 16

D 25

Answer: D

**Question 28**

'Queensberry rules' is the code followed in which sport?

- A Tennis
- B Cricket
- C Boxing
- D Equestrian

**Answer: C**

## RRB General Science Notes (Download Pdf)

**Question 29**

What is the currency of Thailand called as ?

- A Rupee
- B Ringgit
- C Baht
- D Yuan

**Answer: C**

**Question 30**

Which is the only organ in the human body that can regrow/regenerate?

- A Spleen
- B Brain
- C Liver
- D Pancreas

**Answer: C**

**Question 31**

Smita can finish a work in 12 days and Sam can finish the same work in 9 days. After working together for 4 days they both leave the job. What is the fraction of unfinished work?

- A  $\frac{1}{2}$
- B  $\frac{7}{9}$
- C  $\frac{2}{9}$
- D  $\frac{1}{4}$

**Answer: C**

**Explanation:**

Smita's 1 days work =  $\frac{1}{12}$

$$\text{Sam's 1 days work} = \frac{1}{9}$$

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

$$\text{Both's 4 days work} = 4 \times \frac{7}{36} = \frac{7}{9}$$

$$\text{Remaining work} = 1 - \frac{7}{9} = \frac{2}{9}$$

$$\text{So, required fraction of work unfinished} = \frac{2}{9}$$

## RRB GK Material (Download Pdf)

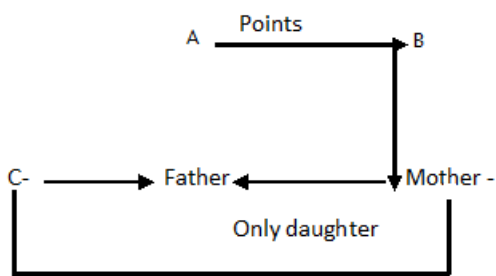
### Question 32

A points to B and says to a lady C "His mother is the only daughter of your father". If so, how is C related to B?

- A Mother
- B Daughter
- C Grandmother
- D Son

Answer: A

Explanation:



C and mother of B is same.

### Question 33

If  $x$  is a prime number, LCM of  $x$  and its successive number would be

- A  $x$
- B  $x + 1$
- C  $x(x + 1)$
- D  $\frac{x}{x+1}$

Answer: C

Explanation:

Prime number is  $x$  and its successive number is  $x+1$

So, lcm of  $x$  and  $(x+1) = x(x+1)$

Question 34

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.

Statements:

- 1) Some kids are clever.
- 2) Some kids are players.

Conclusion:

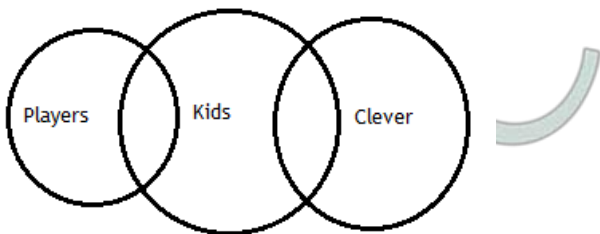
- I. Some players are clever
- II. Some clever kids are players.

Decide which of the given conclusions logically follow (s) from the given statements.

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

Answer: D

Explanation:



- I. Some players are clever cannot always be true.
  - II. Some clever kids are players is false
- None of the conclusions follow.

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Question 35

Find the value of  $\frac{(0.0112 - 0.0012) \text{ of } 0.14 + 0.25 \times 0.2}{0.02 \times 0.01}$

- A 257
- B 25.7
- C 2.57
- D 0.0257

Answer: A

Explanation:

$$\frac{(0.0112 - 0.0012) \text{ of } 0.14 + 0.25 \times 0.2}{0.02 \times 0.01}$$

$$\frac{(0.0112 - 0.0012) \times 0.14 + 0.25 \times 0.2}{0.02 \times 0.01}$$

$$\frac{(0.01) \times 0.14 + 0.05}{0.0002}$$

$$\frac{0.0014 + 0.05}{0.0002}$$

0.0514  
0.0002 = 257

**Question 36**

Which of the following gases are responsible for the greenhouse gas effect on Earth?

- A Water Vapour and Carbon dioxide
- B Carbon dioxide and Nitrous oxide
- C Carbon dioxide and Methane
- D Ozone and Methane
- E all of the above

**Answer:** E

**Explanation:**

The primary greenhouse gases in Earth's atmosphere are **water vapour, carbon dioxide, methane, nitrous oxide, and ozone.**

**Question 37**

If  $\triangle \circ = 52$ ,  $\square \# = 43$  what is  $\# \triangle \square$ ?

- A 523
- B 243
- C 432
- D 354

**Answer:** D

**Explanation:**

$\triangle = 5, \circ = 2, \square = 4, \# = 3$

$\# \triangle \square = 354$

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

**Question 38**

If  $\frac{1}{4}^{th}$  of the wall is painted blue,  $\frac{1}{2}$  is painted yellow and remaining 3 m is painted white, what is the length of the wall?

- A 10
- B 8
- C 16
- D 12

**Answer:** D

**Explanation:**

Let the length of the wall be x

According to the question,

$$x - \left( \frac{x}{4} + \frac{x}{2} \right) = 3$$

$$x - \frac{6x}{8} = 3$$

$$\frac{2x}{8} = 3$$

$$x = 12$$

**Question 39**

In a certain code language, North=West, South=East, East=North, which direction does the sun rise?

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

**Answer:** C

**Explanation:**

Sun rise in east and code of east is north.

so, answer is north.

**Question 40**

Who was the last Mughal Emperor?

- A Babur
- B Jehangir
- C Akbar
- D Bahadur Shah

**Answer:** D

## RRB NTPC Free Mock Tests

**Question 41**

Who was the first to score a perfect 10 in Olympics in gymnastics?

- A Nadia Comaneci
- B Daniela Silivas
- C Alexander Dityatin
- D Mary Lou Retton

**Answer:** A

**Question 42**

Geetha weighs 11.235 kg. Her sister weighs 1.4 times her weight. Find their combined weight?

- A 15.729 kg.
- B 25.964 kg.
- C 26.964 kg

D 26.946 kg.

Answer: C

**Explanation:**

Geeta wights = 11.235 kg

Her sister =  $1.4 \times 11.235 = 15.729 \text{ kg}$

Combined weight =  $11.235 + 15.279 = 29.964 \text{ kg}$

**Question 43**

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.

**Statements:**

1) Because of motor vehicles like cars, pollution has increased manifold.

2) Respiratory diseases are increasing due to pollution.

**Conclusions:**

I. If cars were not there pollution would be nil

II Doctors earn a lot due to pollution.

Decide which of the given conclusions logically follow(s) from the given statements.

A Either I or II follow

B Neither I nor II follow

C Only conclusion I follows

D Only conclusion II follows

Answer: B

**Explanation:**

According to the statements conclusions are not relevant so neither I nor II follows as cars are only one of the reasons and there can be other reasons too. Nothing has been spoken about the doctors. Hence this is also not relevant.

## RRB JE Previous Papers ( Download Pdf)

**Question 44**

Sita told her friend Gita "I am leaving today and will reach Mumbai tomorrow for my exams starting the day after tomorrow, which is Friday". What day is tomorrow in this conversation?

A Wednesday

B Thursday

C Tuesday

D Saturday

Answer: B

**Explanation:**

Given day after tomorrow is Friday. Therefore day (Friday) before yesterday should be Wednesday. It means that Sita started her journey on Wednesday & will reach Mumbai on Thursday. Thursday is tomorrow in this conversation.

**Question 45**

A deep crack in a glacier is called

A A crevice

- B A crevasse
- C A crack
- D A cleft

**Answer: B**

**Question 46**

If angles of a quadrilateral are in the ratio 3:5:9:13, find the largest angle?

- A 165
- B 180
- C 156
- D 190

**Answer: C**

**Explanation:**

Let the angles of quadrilateral are  $3x$ ,  $5x$ ,  $9x$  and  $13x$

As we know that sum of all angles of quadrilateral = 360 degree

$$3x + 5x + 9x + 13x = 360$$

$$30x = 360$$

$$x = 12$$

$$\text{Largest angle} = 12 \times 13 = 156^\circ$$

## RRB JE Free Mock Test

**Question 47**

Headquarters of UNESCO is located at

- A Moscow
- B New York
- C London
- D Paris

**Answer: D**

**Question 48**

Madhubani painting style is native to which state?

- A Orissa
- B Andhra Pradesh
- C Bihar
- D Madhya Pradesh

**Answer: C**



**Question 49**

If cost price of 5 cars is equal to selling price of 4 cars. Find the percentage of profit or loss?

- A 10% Profit
- B 10% Loss
- C 25% Profit
- D 25% Loss

**Answer: C**

**Explanation:**

Let c.p of 1 car = Rs 1

cost price of 5 cars is = selling price of 4 cars = Rs 5

cost price of 4 cars = Rs 4

Profit = 5 - 4 = 1

Profit % =  $\frac{1}{4} \times 100 = 25\%$

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**Question 50**

What smallest number should be added to the sum of squares of 15 and 14, so that the resulting number is a perfect square?

- A 17
- B 20
- C 11
- D 9

**Answer: B**

**Explanation:**

square of 15 is 225

square of 14 is 196

225+196=421

Go through option or find nearest square value to 421 that is 441

421+20=441

441 is square of 21

**Question 51**

'E' is related to 'BH' in the same way as 'N' is related to?

- A IP
- B KQ
- C LP
- D KR

**Answer: B**

Explanation:

B	E	H
+3	+3	

K	N	Q
+3	+3	

Question 52

Find the mean of the first 6 prime numbers?

- A  $14/3$
- B 3
- C  $41/6$
- D  $13/2$

Answer: C

Explanation:

First six prime numbers = 2, 3, 5, 7, 11, 13

$$\text{Mean} = \frac{41}{6}$$

## RRB Group-D Previous Papers

Question 53

The perimeter of a rectangle is 28cm. If the length is  $5/2$  times its breadth, find the length and breadth of the rectangle.

- A 9 & 5
- B 10 & 4
- C 6 & 7
- D 11 & 3

Answer: B

Explanation:

Perimeter of a rectangle =  $2(l + b)$

$$2(l + b) = 28$$

$$l + b = 14$$

$$\text{Now } l = \frac{5}{2}b$$

$$\text{So, } \frac{5}{2}b + b = 14$$

$$\frac{7b}{2} = 14$$

Hence,  $b = 4$  and  $l = 10$ .

Question 54

The sum of two digits of a number is 10. If the digits are interchanged, then its value increases by 18. Find the number.

- A 46
- B 64
- C 19

D 28

Answer: A

**Explanation:**

Let the digits at unit place be  $y$  and tens place be  $x$

$$x + y = 10 \text{ -----I}$$

Number formed =  $10x + y$  and number formed after digits interchanged =  $10y + x$

According to the question,

$$(10y+x) - (10x+y) = 18$$

$$10y + x - 10x - y = 18$$

$$9y - 9x = 18$$

$$y - x = 2 \text{ -----II}$$

Adding I and II we get

$$2y = 12$$

$$y = 6 \text{ and } x = 4$$

Hence, number =  $10 \times 4 + 6 = 46$

**Question 55**

Which of the following is always present in organic compounds?

- A Carbon
- B Nitrogen
- C Sulphur
- D Potassium

Answer: A

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

**Question 56**

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.

**Statements:**

- I. Health insurance in India caters only to rich
2. Health insurance sector should be regulated.

**Conclusion :**

- I. Health insurance sector should be nationalized
- II. Health insurance is not required for the poor.

Decide which of the given conclusions logically follow(s) from the given statements.

- A Neither I nor II follow
- B Only conclusion I follows
- C Either I or II follow
- D Only conclusion II follows

Answer: A

**Explanation:**

According to the statements neither I nor neither II conclusion follows as no information regarding to be nationalized is given. Also, if it caters only to the rich it doesn't mean that poor don't need it. Hence false.

**Question 57**

If  $COW \div CW = 13$ , what might be the value of  $COW$ ?

- A 272
- B 195
- C 323
- D 387

**Answer: B**

**Explanation:**

We will go through options

Option 1, if  $COW = 272$ , then  $C = 2, O = 7, W = 2$ . Thus  $COW \div CW = 13 = \frac{272}{22} = 12.36$

Option 2, if  $COW = 195$ , then  $C = 1, O = 9, W = 5$ . Thus  $COW \div CW = 13 = \frac{195}{15} = 13$

So, Answer is option B

**Question 58**

Where is the Island of Seychelles located?

- A Indian Ocean
- B Pacific Ocean
- C Atlantic Ocean
- D The Southern Ocean

**Answer: A**

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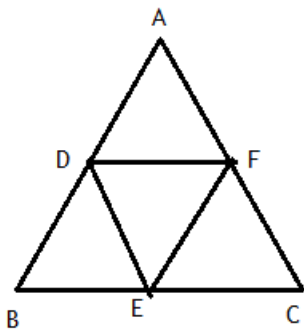
**Question 59**

In an equilateral triangle ABC, D, E, F are the mid points of AB, BC and AC respectively. The quadrilateral BEFD is a

- A Square
- B Rectangle
- C Parallelogram
- D Rhombus

**Answer: D**

**Explanation:**



Given : In Triangle ABC, D,E and F are the mid points of sides AB, BC, CA respectively.

As we know that triangle formed by joining the midpoint of an equilateral triangle is also a equilateral triangle

So,  $DE=EF=FD=EB=DB$

Hence, BEFD is a rhombus.

#### Question 60

Where is the headquarters of Interpol located?

- A Paris
- B London
- C Lyon
- D Brussels

Answer: C

#### Question 61

The ratio between the weights of gold and silver in an alloy is 17:3. If the weight of silver in the alloy is 2.7gm, find the weight of gold in the alloy?

- A 12.6 gm
- B 15.3 gm
- C 18 gm
- D 21.2 gm

Answer: B

#### Explanation:

ratio between the weights of gold and silver in an alloy is 17:3

3 units = 2.7

1 units = 0.9

so, 17 units =  $17 \times 0.9 = 15.3\text{gm}$ .

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#### Question 62

Which is the largest non-polar desert in the World?

- A Kalahari
- B Gobi

- C Sahara
- D Great Australian

Answer: C

Question 63

Which single discount will be equal to two successive discounts of 12% and 5%?

- A 17%
- B 8.5%
- C 16.4%
- D 15.2%

Answer: C

Explanation:

$$100 \times \frac{88}{100} \times \frac{95}{100} = 83.6$$

So, single discount =  $100 - 83.6 = 16.4\%$ .

Question 64

Jimmy Wales and Larry Sanger are associated with?

- A Wikipedia
- B Google
- C Whatsapp
- D Facebook

Answer: A

## RRB General Science Notes (Download Pdf)

Question 65

What comes next in the series?

B, D, H, N ?

- A V
- B P
- C S
- D W

Answer: A

Explanation:

B,	D,	H,	N,	V
+2	+4	+6	+8	

**Question 66**

Which of the following is called Aurum?

- A Bronze
- B Gold
- C Silver
- D Copper

**Answer: B**

**Question 67**

CAT : MOUSE as SNAKE:

- A Reptile
- B Mongoose
- C Hole
- D Poison

**Answer: B**

**Explanation:**

Cat feeds on mouse in the same snake feeds on mongoose.

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

**Question 68**

Divide 13,680 in three parts such that 1<sup>st</sup> part is  $\frac{3}{5}$ <sup>th</sup> of the third part and the ratio between 2<sup>nd</sup> and 3<sup>rd</sup> part is 4:7. How much is the first part?

- A 3780
- B 6300
- C 3600
- D 4800

**Answer: A**

**Explanation:**

Let the third part be x

Then, 1st part =  $\frac{3x}{5}$  and 2nd part =  $\frac{4x}{7}$

According to the question,

$$x + \frac{3x}{5} + \frac{4x}{7} = 13680$$

$$\frac{76x}{35} = 13680$$

$$x = 6300$$

$$\text{Hence, 1st part} = \frac{3 \times 6300}{5} = 3780$$

**Question 69**

**Punched card is also called**

- A Hollerith card
- B Video card
- C Sound card
- D Accelerator card

**Answer: A**

**Question 70**

**In a camp 180 students had ration for 20 days. How many students should leave the camp if the ration should last for 25 days?**

- A 36
- B 24
- C 28
- D 40

**Answer: A**

**Explanation:**

Let  $x$  be the students to leave the camp

$$\text{so, } 180 \times 20 = x \times 25$$

$$x = 144$$

$$\text{So number of students to leave} = 180 - 144 = 36$$

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**Question 71**

**World environment day is observed on**

- A February 28
- B May 16
- C June 05
- D September 12

**Answer: C**

**Question 72**

**Simplify:  $\sqrt{50} + \sqrt{18} - \sqrt{8}$**

- A  $8\sqrt{2}$
- B  $7\sqrt{2}$
- C  $6\sqrt{2}$



D  $5\sqrt{2}$

Answer: C

Explanation:

$$\sqrt{50} + \sqrt{18} - \sqrt{8}$$

$$5\sqrt{2} + 3\sqrt{2} - 2\sqrt{2}$$

$$6\sqrt{2}$$

Question 73

If  $1 = 2$ ,  $3 = 6$ ,  $4 = 8$ , and  $+ = -$ , what would be the value of  $41 + 34 + 13 = ?$

A -88

B 88

C 12

D -12

Answer: D

Explanation:

$$41 + 34 + 13$$

After changing the sign and number according to the question

$$82 - 68 - 26 = -12$$

## RRB NTPC Previous Papers (Download PDF)

Question 74

If A's sister's husband is B's mother-in-law's son-in-law, how is A related to B?

A Father

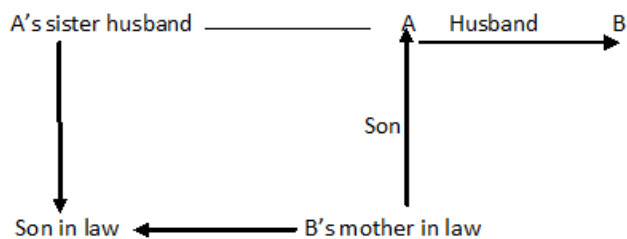
B Father-in-law

C Brother-in-law

D Husband

Answer: D

Explanation:



Here A is son of B's mother in law so A is husband of B.

Instructions

Read the following information and answer the following questions below.

In a class of 90 students, 80 students like burger or pizza. 62 like burger and 56 like pizza.

Question 75

How many like neither burger nor pizza?

- A 10
- B 28
- C 16
- D 14

Answer: A

Explanation:

Person dont like burger or pizza = Total person - person like burger or pizza =  $90 - 80 = 10$

Question 76

How many like both burger and pizza?

- A 24
- B 38
- C 32
- D 18

Answer: B

Explanation:

Person who like burger and pizza = (Person who like burger + person who like pizza)- (person who like burger or pizza)

$(62+56)-80 = 38$

## RRB NTPC Free Mock Tests

Question 77

How many don't like burger?

- A 18
- B 28
- C 38
- D 48

Answer: A

Explanation:

Person who dont like burger = People who like either Burger or Pizza - who like burger =  $80 - 62 = 18$ .

Instructions

For the following questions answer them individually

Question 78

If SUN=108, MOON=114 what is STAR=?

- A 120

- B 116
- C 122
- D 128

**Answer: B**

**Explanation:**

Pattern is Sum of alphabetical numbers is multiplied by 2

$$\text{SUN} = 19+21+14=54=54 \times 2 = 108$$

$$\text{MOON} = 13+15+15+14=57=57 \times 2 = 114$$

In the same way

$$\text{STAR} = 19+20+1+18=58 \times 2 = 116$$

**Question 79**

**With which sport is the term 'Tee' connected?**

- A Hockey
- B Polo
- C Golf
- D Badminton

**Answer: C**

## RRB JE Previous Papers ( Download Pdf)

**Question 80**

The average age of 27 students of a class is 22. If the age of the teacher is also added to their ages, then the average increases by one. Find the age of the teacher.

- A 42
- B 48
- C 50
- D 52

**Answer: C**

**Explanation:**

Average age of 27 students = 22

$$\text{Total sum of the age of 27 students} = 27 \times 22 = 594$$

Let the age of teacher be x years

According to the question,

$$\frac{594+x}{28} = 22 + 1$$

$$594 + x = 644$$

$$x = 50 \text{ years}$$

**Question 81**

**Who is called the Frontier Gandhi?**

- A Muhammad Ali Jinnah
- B Mahatma Gandhi
- C Khan Abdul Ghaffar Khan
- D Bal Gangadhar Tilak

Answer: C

**Question 82**

Simplify:  $\frac{81x^2 - 49y^2}{9x + 7y}$

- A  $9x + 7y$
- B  $9x - 7y$
- C  $9x$
- D  $7y$

Answer: B

**Explanation:**

$$\frac{81x^2 - 49y^2}{9x + 7y}$$

$$\frac{\{(9x)^2 - (7y)^2\}}{9x + 7y}$$

$$\frac{(9x + 7y)(9x - 7y)}{(9x + 7y)}$$

$$9x - 7y$$

## RRB JE Free Mock Test

**Question 83**

Find the value of  $\sin^2 30 \cos^2 45 + 4 \tan^2 30 + (1/2) \sin^2 90 - \cos^2 90 + 1/24$

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

Answer: C

**Explanation:**

$$\sin^2 30 \cos^2 45 + 4 \tan^2 30 + (1/2) \sin^2 90 - \cos^2 90 + 1/24$$

By trigonometric ratio,

$$\left(\frac{1}{2}\right)^2 \times \left(\frac{1}{\sqrt{2}}\right)^2 + 4 \left(\frac{1}{\sqrt{3}}\right)^2 + \frac{1}{2} (1)^2 - (0)^2 + \frac{1}{24}$$

$$\frac{1}{4} \times \frac{1}{2} + 4 \times \frac{1}{3} + \frac{1}{2} - 0 + \frac{1}{24}$$

$$\frac{1}{8} + \frac{4}{3} + \frac{1}{2} + \frac{1}{24} = \frac{48}{24} = 2.$$

**Question 84**

Which number will fit in '?' place in the following series?

2, ?, 12, 20, 30, 42

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

**Answer:** C

**Explanation:**

$$2+4 = 6$$

$$6+6 = 12$$

$$12+8 = 20$$

$$20+10 = 30$$

$$30+12 = 42$$

So, our answer is option C.

**Question 85**

Granite is an example of

- A Metamorphic rock
- B Sedimentary rock
- C Igneous rock
- D Artificial stone

**Answer:** C

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**Question 86**

What did Edward Jenner pioneer?

- A Vaccination
- B Electrocutation
- C Dialysis
- D Open heart surgery

**Answer:** A

**Question 87**

The runs scored by two batsmen over 7 matches are given below. Which batsman's average was better?

<b>Batsman 1</b>	42	51	9	78	63	20	12
<b>Batsman 2</b>	30	22	91	76	84	11	7

- A Batsman 1 - 39.3
- B Batsman 1 - 45.9
- C Batsman 1 - 43.2
- D Batsman 2 - 45.9

**Answer: D**

**Explanation:**

Batsman 1 total runs in 7 matches =  $42+51+9+78+63+20+12 = 275$

Average of batsman 1 =  $\frac{275}{7} = 39.30$

Batsman 2 total runs in 7 matches =  $30+22+91+76+84+11+7 = 321$

Average of batsman 2 =  $\frac{321}{7} = 45.90$

**Question 88**

**Which of the following is a land locked country?**

- A Azerbaijan
- B Kazakhstan
- C Pakistan
- D Bangladesh

**Answer: B**

## RRB Group-D Previous Papers

**Question 89**

**After allowing a discount of 20% on Marked price Kishore makes a profit of 12%. What percentage is the Marked price above the Cost price?**

- A 40%
- B 32%
- C 25%
- D 8%

**Answer: A**

**Explanation:**

Let the C.P be Rs 100

P = 12%

S.P = Rs 112

Discount = 20%

Now let M.P be Rs x

Then,

$$x \times \frac{80}{100} = 112$$

$$x = 140$$

Hence M.P is  $(140-100) = 40\%$  above the cost price.

**Question 90**

**Which Indian king used naval power to conquer parts of East Asia?**

- A Akbar
- B Krishna deva Rava
- C Rajendra Chola
- D Shivaji

**Answer: C**

**Question 91**

**Which number will fit both the series of numbers?**

**Series A: 1, 4, 9... Series B: 1, 8, 27...**

- A 42
- B 36
- C 64
- D 25

**Answer: C**

**Explanation:**

Series A = 1, 4, 9, 16, 25, 36, 49, 64

Series B = 1, 8, 27, 64

Both the series have 64 common so, 64 will fit in both.

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**Question 92**

**A certain sum when invested at 5% interest compounded annually for 3 years yields an interest of Rs. 2,522. Find the Principal?**

- A Rs. 12,522
- B Rs. 15,200
- C Rs. 16,000
- D Rs. 17,200

**Answer: C**

**Explanation:**

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

$$P + 2522 = P \left(\frac{105}{100}\right)^3$$

$$P + 2522 = 1.57625P$$

$$0.57625P = 2522$$

$$P = \frac{2522}{0.57625} = 16000$$

Hence, principal = Rs 16000

**Question 93**

The diagonal of a rhombus is 8m and 6m respectively. Find its area

- A 48 sq.m.
- B 24 sq.m.
- C 12 sq.m.
- D 96 sq.m.

**Answer: B**

**Explanation:**

Area of rhombus =  $\frac{1}{2} \times d_1 \times d_2 = \frac{1}{2} \times 8 \times 6 = 24$  sq metre.

**Question 94**

Ram and Rahim standing at a distance of 680m run towards each other at a speed of 8 m/sec and 9m/sec respectively. After how long will they meet?

- A 17 sec
- B 24 sec
- C 40 sec
- D 36 sec

**Answer: C**

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**Question 95**

**Simplify:**  $[2\frac{1}{3} - 1\frac{1}{2}]$  of  $\frac{3}{5} + 1\frac{2}{5} \div 2\frac{1}{3}$

- A  $\frac{1}{10}$
- B  $\frac{3}{10}$
- C  $1\frac{1}{10}$
- D 1

**Answer: C**

**Explanation:**

$[2\frac{1}{3} - 1\frac{1}{2}]$  of  $\frac{3}{5} + 1\frac{2}{5} \div 2\frac{1}{3}$

$[3 - 2] \times \frac{3}{5} + \frac{7}{5} \times \frac{3}{7}$

$\frac{5}{6} \times \frac{3}{5} + \frac{7}{5} \times \frac{3}{7}$

$\frac{5}{6} \times \frac{3}{5} + \frac{3}{5}$

$\frac{1}{2} + \frac{3}{5}$

$1\frac{1}{10}$



**Question 96**

If Reena sold 12 mobile phones for Rs. 188,160 which cost Rs. 14,056 per phone, what was the total profit made by her?

- A Rs. 19,488
- B Rs. 17,621
- C Rs. 21,014
- D Rs. 18,958

**Answer:** A

**Explanation:**

Selling price of 12 mobile phones = Rs 188,160

Cost price of 12 mobile phones =  $12 \times 14056 = \text{Rs}168,672$

Total profit = S.P. - C.P =  $188160 - 168672 = \text{Rs. } 19,488$

**Question 97**

Which country has won maximum number of World cup titles in football?

- A Italy
- B Argentina
- C Brazil
- D France

**Answer:** C

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**Question 98**

If ALPHA=36, BETA=26, then DELTA=?

- A 38
- B 31
- C 40
- D 36

**Answer:** C

**Explanation:**

Sum of the alphabetical positions of letters - 1 is the pattern

ALPHA =  $1+12+16+8+1 - 2 = 37 - 1 = 36$

BETA =  $2+5+20+1 - 2 = 26$

DELTA =  $4+5+12+20+1 - 2 = 40$

**Question 99**

If 3:27:: 5:?

- A 25

**B** 125

**C** 250

**D** 625

**Answer: B**

**Explanation:**

$3^3 = 27$  in the same way  $5^3 = 125$

**Question 100**

**Which is the brightest star in our night sky?**

**A** Canopus

**B** Sirius A

**C** Vega

**D** Spica

**Answer: B**

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