



## RRB JE 1st June 2019 Shift-3

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## RRB JE 1st June 2019 Shift-3

### Instructions

For the following questions answer them individually

### Question 1

To monitor the foetal growth, the latest technique of \_\_\_\_\_ is used.

- A Chemotherapy
- B CAT Scan
- C Ultrasonics
- D Eudiometry

Answer: C

## RRB NTPC Free Mock Tests

### Question 2

Simplify  $\frac{2}{1-\sqrt{2}}$

- A  $-(2+\sqrt{2})$
- B  $2+\sqrt{2}$
- C  $-2(1+\sqrt{2})$
- D  $1-2\sqrt{2}$

Answer: C

### Explanation:

$$\frac{2}{1-\sqrt{2}}$$

$=\frac{2(1+\sqrt{2})}{(1-\sqrt{2})(1+\sqrt{2})}$  (multiply the numerator and denominator by  $(1+\sqrt{2})$ ).

$$=-2(1+\sqrt{2}).$$

C is correct choice.

### Question 3

Ethyl alcohol is used as a/an?

- A Fuel in spirit lamps
- B Alcoholic beverage
- C Solvent
- D All of the options

Answer: D

### Question 4

In a certain code language, 'pat zoo sim' means 'eat good mangoes', 'pus sim tim' means 'mangoes and sweets' and 'tim zoo kit' means 'purchase good sweets'. Which word in that language means 'eat'?

- A pus
- B pat
- C sim
- D tim

Answer: B

## RRB JE Previous Papers ( Download Pdf)

### Question 5

Anemia is caused in man due to the deficiency of -

- A Vitamin B
- B Iron
- C Folic acid
- D Vitamin A

Answer: B

### Question 6

The process in which acids and bases react to form salts and water is called \_\_\_\_\_ reaction.

- A Sublimation
- B Hydrogenation
- C Halogenation
- D Neutralisation

Answer: D

### Question 7

If  $\text{Cosec } \alpha = \sqrt{2}$  Evaluate  $\frac{2\sin^2\alpha + 3\cos^2\alpha}{\text{cosec}^2\alpha + \cot^2\alpha}$

- A  $\frac{5}{6}$
- B  $\frac{5}{2}$
- C  $\frac{5}{12}$
- D  $\frac{5}{3}$

Answer: A

## RRB JE Free Mock Test

### Question 8

When was the universal immunisation programme started in India ?

- A 1974
- B 1980
- C 1985
- D 1991

Answer: C

**Question 9**

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

Seven friends— A, B, C, D, E, F and G like different colours—red, blue, white, pink, black and yellow, but not necessarily in the same order. They all have different hobbies (like different activities) singing, drawing, reading, cooking, painting, dancing and fishing, but not necessarily in the same order.

The hobby of D is singing. The one whose hobby is cooking likes pink colour. A likes yellow colour. The one whose hobby is fishing likes green colour. The hobby of F is reading. Neither F likes black colour. The one whose hobby is dancing, and drawing does not like red colour. The hobby of A is not drawing. The one whose hobby is drawing does not like red colour. The hobby of G is not drawing. The one whose hobby is drawing does not like white colour; D does not like red colour. The hobby of G is neither painting nor dancing. E does not like green colour. G does not like green and black colour. The hobby of B is not fishing and cooking.

Who among the following likes pink colour?

- A C
- B G
- C B
- D E

Answer: B

Explanation:

Name	Color	Hobby
A	yellow	
B		
C		
D		Singing
E		
F		
G		

The hobby of D is singing. The one whose hobby is cooking likes pink colour. A likes yellow.

Name	Color	Hobby
A	yellow	
B		
C		
D		Singing
E		
F	(X Black)	Reading
G		



The one whose hobby is fishing likes green colour.  
 The hobby of F is reading. Neither F likes black colour.

Name	Color	Hobby
A	yellow	(X Drawing)
B		
C		
D		Singing
E		
F	(X Black)	Reading
G		(X Drawing)

The hobby of A is not drawing. The one whose hobby is drawing does not like red. The hobby of G is not drawing.

Name	Color	Hobby
A	yellow	(X Drawing)
B		(X fishing, cooking)
C		
D	(X Red)	Singing
E	(X Green)	
F	(X Black)	Reading
G	(X green , black)	(X Drawing, Painting, Dancing)

The one whose hobby is drawing does not like white colour; D does not like red colour. The hobby of G is neither painting nor dancing. E not like green colour. G does not like green and black colour. The hobby of B is not fishing and cooking.

Then , We can say that G either like fishing or cooking.  
 But G doesn't like green color, so, he must like Pink color and Cooking.  
 So, B is correct choice.



**Question 10**

If '+' means '-', '-' means '+', 'x' means '÷' and '÷' means 'x', then  $5 - 5 + 5 \div 5 \times 5 = ?$

- A 5
- B 25
- C 20
- D 26

**Answer:** A

**Explanation:**

Rearranging it :

$$5+5-5 \times 5 \div 5$$

$$=5+5-5 \times 1$$

$$=5+5-5$$

$$=10-5$$

$$=5.$$

A is correct choice.

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**Question 11**

**Mark the true statement:**

- i) There are only two primes that are consecutive positive integers.
- ii) For every positive primes, there is a corresponding negative prime.
- iii) Sum of two primes is always even
- iv) Coprime numbers are always prime numbers.

- A Statements (ii) and (iv) only
- B Statement (ii) only
- C Statement (i) only
- D Statement (iii) only

**Answer:** C

**Explanation:**

i) There are only two primes that are consecutive positive integers. -- this is true .as 2 & 3 are only two consecutive prime numbers.

But rest of the statements:

- ii) For every positive primes, there is a corresponding negative prime.
- iii) Sum of two primes is always even
- iv) Coprime numbers are always prime numbers.

are false .

C is correct choice.

**Question 12**

**Which element has two shells, both of which are completely filled with electrons?**

- A Argon

B Magnesium

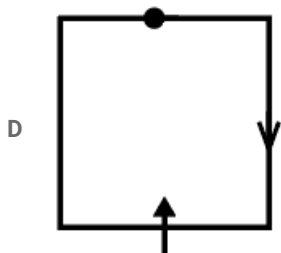
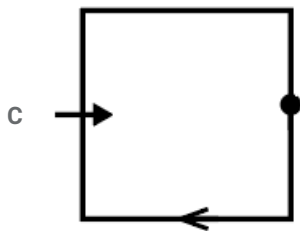
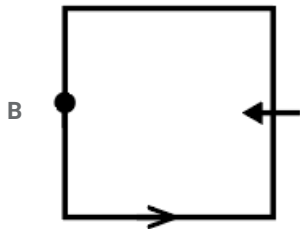
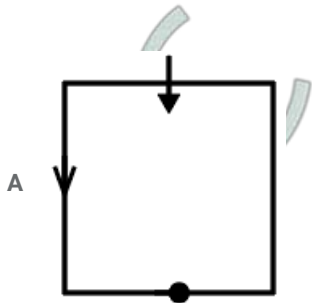
C Carbon

D Neon

Answer: D

**Question 13**

Find the odd one out from the given options



Answer: A

**Explanation:**

Starting from image D ,if we rotate image in clockwise direction, then we will get image in D,C and B .

But the position of arrow,dot and line is changed their position in image A ,which is not the part of sequence.

So, A is correct choice.

**RRB Group-D Previous Papers**

**Question 14**

In which of the following states of India is the Shevaroy Hills located?

A Andhra Pradesh

- B Rajasthan
- C Tamil Nadu
- D Karnataka

Answer: C

**Question 15**

Acid secretion is a characteristic of -

- A Small intestine
- B Stomach
- C Large intestine
- D Buccal cavity

Answer: B

**Question 16**

Three persons have their ages in the ratio 4 : 7 : 9. Eight years back their total age was 56. How old is the eldest now?

- A 36
- B 42
- C 28
- D 32

Answer: A

**Explanation:**

Let say, their present age is  $4k, 7k$  and  $9k$ .

So, according to question:

$$(4k-8)+(7k-8)+(9k-8)=56.$$

$$\text{or, } 20k=56+24=80.$$

$$\text{So, } k=4.$$

$$\text{So, present age of eldest is } =9k=9\times 4=36.$$

A is correct choice.

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

**Question 17**

If 'Sky' is called 'Sea', 'Sea' is called 'Water', 'Water' is called 'Air', 'Air' is called 'Cloud' and 'Cloud' is called 'River', then what do we drink when thirsty?

- A Water
- B Sea
- C Air
- D Sky



**Answer: C**

**Explanation:**

When we thirsty we drink Water .

But here Water is called Air .

So, Air is correct choice.

C is correct answer.

**Question 18**

**Mark the right statement:**

- (i) Coprime numbers must be both prime always.
- (ii) Of two coprime numbers one is prime and the other is composite always.
- (iii) Coprime numbers are twin primes.
- (iv) Two consecutive integers are always coprime.

- A Statement (iii) only
- B Statement (iv) only
- C Statement (ii) only
- D only D) Statement (i) only

**Answer: B**

**Explanation:**

Let consider two numbers 3 & 8 ,they are coprime to eachother but 8 is not prime number.

So, Statement: (i) Coprime numbers must be both prime always, is not valid.

Let consider two numbers 2 and 3 ,they are coprime to eachother but none of them are composite number.

So, Statement: (ii) Of two coprime numbers one is prime and the other is composite always, is also not valid.

17 & 26 are also coprime to eachother but they are not twin prime.

So, Statement: (iii) Coprime numbers are twin primes, is not valid.

But if we consider any two consecutive numbers ,they are always coprime,as they create even,odd pair for any two number set.

So, Statement (iv) is valid only.

B is correct choice.

**Question 19**

**Fix the symbols +, -, ×, ÷ appropriately in the box to fit the equation given here.**

$$5 \square 1 \square 3 \square 5 = 20$$

**latek**

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

**Answer: D**

**Explanation:**

Rearranging the equation:

$$5 \div 1 + 3 \times 5$$

$$=5 + 3 \times 5$$

$=5 + 15$

$=20.$

So, D is correct choice.

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### Question 20

Which celestial body twinkles in the night sky?

- A Moon
- B Mars
- C Jupiter
- D Star

Answer: D

### Question 21

With which of these games is the term 'checkmate' associated?

- A Snakes and Ladders
- B Chess
- C Chines Checkers
- D Ludo

Answer: B

### Question 22

With which of the following sports is the 'Rohinton Baria Trophy' associated?

- A Cricket
- B Football
- C Basketball
- D Hockey

Answer: A

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### Question 23

The sum of the squared deviations of a set of value is least if measured from \_\_\_\_\_.

- A Mode
- B Median
- C Arithmetic mean

D Standard deviation

Answer: C

**Explanation:**

If any negative integer squared it will give you positive integer.

Arithmetic mean is the most close and maximize value of any set .so, if we devariate it from original data set value ,it will give you least value .

So, The sum of the squared deviations of a set of value is least if measured from Arithmetic mean.

C is correct choice.

**Question 24**

**P and Q jog along a circular track of 400 m in opposite directions from the same starting point starting together, with speeds 10 m/s and 40 m/s. Whenever they meet, P's speed is doubled and Q's speed is halved. After what time from start, will they meet for the third time?**

A 28 seconds

B 36 seconds

C 18 seconds

D 26 seconds

Answer: D

**Explanation:**

They run in opposite direction,so their relative velocity is  $(40+10)$  m/s =50 m/s.

They will meet for first time after  $(400/50)= 8$  sec.

Now, their speed become  $(10\times 2)=20$  m/s and  $(40/2)=20$  m/s.

So, now their relative velocity become  $(20+20)=40$  m/s.

So, they will meet for second time after  $(400/40)=10$  sec.

again after meet for third time their speeds will be  $(20\times 2)=40$  m/s and  $(20/2)= 10$  m/s.

So, relative velocity is=  $(40+10)=50$  m/s.

So, they will meet for third time after  $(400/50)=8$  m/s.

So, total time taken to meet for third time is  $=(8+10+8)=26$  sec.

D is correct choice.

**Question 25**

**Find the least number which when doubled will be exactly divisible by 12, 16, 18, 21 and 28.**

A 336

B 19940

C 1008

D 504

Answer: D

**Explanation:**

$$12 = 2^2 \times 3$$

$$16 = 2^4$$

$$18 = 3^2 \times 2$$

$$21 = 3 \times 7$$

$$28 = 2^2 \times 7$$

$$\text{So, LCM}(12,16,18,21,28)=(2^4 \times 3^2 \times 7)$$

=1008.

So, A number is exactly divisible by 12,16,18,21 and 28 ,if it is in the form of  $(1008k)$  ,where k is an integer.

So, by choices we can say that the number could be 1008 where  $k=1$ .

we can get 1008 by doubling up 504 .

D is correct choice.

## RRB General Science Notes (Download Pdf)

### Question 26

If the length of a wire is doubled by taking more of wire, what happens to its resistance?

- A Gets decreased
- B Gets halved
- C Gets doubled
- D Remains unaffected

**Answer:** C

### Question 27

A cistern can be filled in 9 hours. But due to a leak, it takes one hour more. If the cistern is full,in what time will it become empty due to the leak?

- A 60 hours
- B 30 hours
- C 90 hours
- D 75 hours

**Answer:** C

### Explanation:

Let say, in x hours that leak emptied the tank.

So, According to question:

$$(1/9)-(1/x)=(1/10)$$

$$\text{or, } (1/x)=(1/9)-(1/10)=(10-9)/90.$$

$$\text{or, } 1/x=1/90.$$

$$\text{or, } x=90.$$

C is correct choice.

### Question 28

Two articles cost Rs.2500 each. One is sold at 5% profit. On the whole if there is 20% profit,what is the percentage profit on selling the other article?

- A 20%

- B 30%
- C 25%
- D 35%

Answer: D

## RRB GK Material (Download Pdf)

### Question 29

What is the normal temperature of a human body?

- A 94.8°F
- B 98.6°F
- C 96.7°F
- D 100°F

Answer: B

### Question 30

The optician prescribes a corrective lens of power +2.5D. What does this mean?

- A The lens is a combo of 2 convex lenses, with powers 2D and 0.5D
- B The lens is a combo of 2 concave lenses, with powers 2D and 0.5 D
- C The lens is convex with power 2D
- D The lens is concave with power 2.5D

Answer: A

### Question 31

Five years ago, the average age of a couple was 24. At present, the average of the couple and a child is 20. What is the child's age?

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

Answer: B

### Explanation:

Let say , individual ages of couple and child are a,b and c respectively.

$$(a-5)/2 + (b-5)/2 =24$$

$$\text{or, } (a+b)=58.....(1)$$

At present, total age of them=60.

$$\text{So, } a+b+c=60$$

or,  $c=60-58=2$ .

B is correct choice.

## RRB NTPC Previous Papers (Download PDF)

### Question 32

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

Statements:

- 1) Some towns are cities.
- 2) All cities are homes.

Conclusions:

- I. Some towns are homes.
- II. Some homes are cities.

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

Answer: B

Explanation:

Statements:

- 1) Some towns are cities.
- 2) All cities are homes.

Means that

Some towns are homes and Some homes are cities also .

So, both the conclusions are right.

B is correct choice.

### Question 33

Who was invited by Lord Wavell to form the interim Government in India in 1946?

- A Rajendra Prasad
- B Vallabhbhai Patel
- C C. Rajagopalachari
- D Jawaharlal Nehru

Answer: D

### Question 34

Two squares differ in areas by  $32 \text{ cm}^2$ . If the difference in their sides is 4 cm, what are the sides of the two squares?

- A 4 cm, 2 cm
- B 12 cm, 8 cm
- C 6 cm, 2 cm
- D 4 cm, 4 cm

**Answer: C**

**Explanation:**

Let say, their sides are a and b.

$$\text{So, } a^2 - b^2 = 32$$

$$\text{and } a - b = 4 \dots \dots (1)$$

$$\text{So, } (a + b)(a - b) = 32.$$

$$\text{or, } (a+b) = 8 \dots \dots (2)$$

By solving (1) and (2) we get :

$$a = 6 \text{ and } b = 2.$$

C is correct choice.

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**Question 35**

**Graafian follicles are characteristically found in the -**

- A Testis of mammals
- B Ovary of frog
- C Thyroid of mammals
- D Ovary of mammals

**Answer: D**

**Question 36**

**Compare static friction and sliding friction.**

- A Sliding friction is slightly smaller than the static friction
- B Sliding friction is slightly greater than the static friction
- C Sliding friction is equal to the static friction
- D Sliding friction is abnormally greater than the static friction

**Answer: A**

**Question 37**

**Find the missing group of alphabets in the following series. ABC, EFG, IJK, (...), UVW**

- A QPO
- B RST
- C XYZ
- D OPQ

**Answer: D**

**Explanation:**

Consecutive three letters of English alphabets are taken together to make a group. Then one letter gap for each group has been

considered.

So, required set is OPQ.

D is correct choice.

## RRB NTPC Free Mock Tests

### Question 38

Two boys A and B start from the opposite direction of 14 km apart. A is facing east and B is facing west. A reaches the distance of 5 km towards east and B reaches a distance of 2 km towards west. What is the distance between the two boys?

- A 9 km
- B 5 Km
- C 7 Km
- D 11 Km

**Answer: C**

#### Explanation:

A and B are apart of 14 km from each other in opposite direction.

if A move 5 km east and B move 2 km west, then they will come close by  $(5+2)=7$  km.

So, they will apart of  $14-7=7$  km .

C is correct choice.

### Question 39

The ratio of salaries of P and Q last year is 4 : 5. The ratio of last year salary and the present salary of P is 3: 5 and for Q this ratio is 2 : 3. If their total salary at present is Rs. 6800, what is salary of Q ?

- A Rs.2700
- B Rs.3600
- C Rs.4200
- D Rs.3200

**Answer: B**

#### Explanation:

Let say, last year P and Q's salary was 4k and 5k.

Now,

$$(4k/P \text{ present salary})=3/5$$

$$\text{or, P present salary}=20k/3.$$

Similarly,

$$Q \text{ present salary} =15k/2.$$

Now,

$$(20k/3)+(15k/2)=6800.$$

$$\text{or, } 40k+45k=6 \times 6800$$

$$\text{or, } k=(6 \times 6800)/85=480.$$

$$Q's \text{ present salary}=480 \times (15/2)=3600 \text{ Rs.}$$

B is correct choice.



**Question 40**

If  $x^4 + \frac{1}{x^4} = 47$ , then find the value of  $x + \frac{1}{x}$

- A 5
- B 7
- C 9
- D 3

**Answer:** D

**Explanation:**

$$x^4 + \frac{1}{x^4} = 47$$

$$\text{or, } (x^2 + \frac{1}{x^2})^2 - 2 \cdot x^2 \cdot \frac{1}{x^2} = 47.$$

$$\text{or, } (x^2 + \frac{1}{x^2})^2 = 49 = 7^2.$$

$$\text{or, } (x^2 + \frac{1}{x^2}) = 7.$$

$$\text{or, } (x + \frac{1}{x})^2 - 2 \cdot x \cdot \frac{1}{x} = 7.$$

$$\text{or, } (x + \frac{1}{x})^2 = 9 = 3^2.$$

$$\text{or, } (x + \frac{1}{x}) = 3.$$

D is correct choice.

## RRB JE Previous Papers ( Download Pdf)

**Question 41**

Which of the following indicators can be used by visually impaired student?

- A Turmeric
- B Petunia leaves
- C Litmus
- D Vanilla

**Answer:** D

**Question 42**

Who among the following took charge as the MD and CEO of ICICI Securities with effect from May 7, 2019?

- A Uday Chitale
- B Radhakrishnan Na
- C Vijay Chandok
- D Girish Chandra chaturvedhi

**Answer:** C

**Question 43**

Which of the following devices fitted in vehicles controls the air pollution?

- A Catalytic converter
- B Carburettor
- C Inverter
- D Radiator

Answer: A

## RRB JE Free Mock Test

Question 44

Who among the following released the book 'Sabka Saath Sabka Vikas' in March 2019?

- A Sushma Swaraj
- B Arun Jaitley
- C Rajnath Singh
- D Ravi Shankar Prasad

Answer: B

Question 45

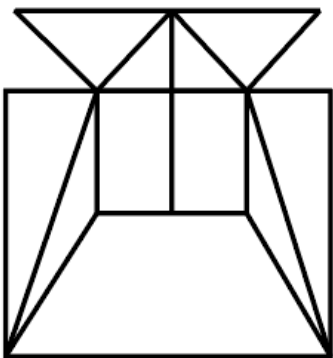
ASTRO-H was an X-ray astronomy satellite launched by?

- A Australia
- B USA
- C Japan
- D India

Answer: C

Question 46

How many lines are there given figure



- A 8
- B 12
- C 17

D 21

Answer: C



## Daily Free RRB Online Test

### Question 47

The breadth of a rectangular field is 60% of its length. If the perimeter of the field is 800 m, what is the area of the field?

A 40000 m<sup>2</sup>

B 37500 m<sup>2</sup>

C 18750 m<sup>2</sup>

D 48000 m<sup>2</sup>

Answer: B

#### Explanation:

Length = l.

So, breadth=0.60l.

So,  $2(l+0.60l)=800$

or,  $1.6l=400$

or,  $l=250$ .

So, breadth= 150 m.

So, area of the fence= $250 \times 150m^2$

= $37500m^2$ .

B is correct choice.

### Question 48

Two pipes P and Q can fill a tank in 32 minutes and 48 minutes. Both pipes are opened and after some time pipe Q is turned off. The tank is filled in 24 minutes. When was the pipe Q closed?

A 15 minutes

B 10 minutes

C 16 minutes

D 12 minutes

Answer: D

#### Explanation:

Let say, after x min Pipe Q turned off.

P and Q together can fill in 1 min =

$(1/32)+(1/48)=(3+2)/96=5/96$ .

So, in x min they will fill = $5x/96$  part.

But, (24-x) min ,P can fill = $(24-x)/32$ .

So,  $(5x/96)+(24-x)/32=1$ .

or, $(5x+72-3x)/96=1$ .

or,  $2x+72=96$ .

or,  $x=12$ .

So, D is correct choice.

**Question 49**

Which of the following is the biggest stadium in India?

- A Salt Lake Stadium
- B Kalinga Stadium
- C Chinnaswamy Stadium
- D Sardar Patel Stadium

**Answer:** A

**RRB Group-D Previous Papers**

**Question 50**

What is the outer ear called?

- A Pinna
- B Auditory nerve
- C Ear drum
- D Cochlea

**Answer:** A

**Question 51**

P and Q can do a piece of work in 40 days. Q and R can do it in 120 days. Q alone could finish it in 180 days. In how many days will P and R working together finish the work?

- A 25
- B 50
- C 45
- D 35

**Answer:** C

**Explanation:**

Let P, Q & R take a, b & c days to complete the work individually.

Given, p & Q can do piece of work in 40 days.

$$\Rightarrow 1/a + 1/b = 1/40$$

Given, Q & R can do it in 120 days.

$$\Rightarrow 1/b + 1/c = 1/120$$

Given, b = 180 days

$$\Rightarrow 1/c = 1/120 - 1/180$$

$$\Rightarrow 1/a = 1/40 - 1/180$$

The work done by P & R in one day =  $1/a + 1/c$

$$= (1/40 - 1/180) + (1/120 - 1/180)$$

$$= 1/40 + 1/120 - 1/90$$

$$= (9+3-4)/360$$

$$= 8/360$$

$$= 1/45$$

=> The number of days P & R will take to do the piece of work together is 45 days.

C is correct choice.

#### Question 52

From the given options, find the ODD one out.

A LO

B TW

C PV

D EH

Answer: C

Explanation:

$$L + 3 = O, E + 3 = H, T + 3 = W.$$

$$\text{But, } P + 6 = V.$$

C is correct choice.

## RRB Free Videos (You Tube Channel)

#### Question 53

Complete the series.

ab, ba, abc, cba, abcd, (...)

A dcba

B bacd

C cabd

D acbd

Answer: A

Explanation:

It's a palindrome sequence each two consecutive words.

$$\text{So, } abcd = dcba.$$

A is correct choice.

#### Question 54

A train takes 2 hours less for a journey of 300 km by increasing its speed by 5 km/h. What is its normal speed?

A 25 km/h

B 20 km/h

C 35 km/h

D 30 km/h

**Answer: A**

**Explanation:**

Time= distance/speed

let unusual speed be x

so  $(300/x)-(300/x+5)=2$

$300\{(x+5)-x\}=2(x+5)x$

$1500=2x(x+5)$

$x(x+5)=750$

$(x^2)+5x-750=0$

from this equation, we can find the two zeroes for the equation as -30 and 25

as speed can never be negative,

so  $x=25$  kmph

A is correct choice.

**Question 55**

Which number will best complete the relationship given below?  $21 : 36 :: 13 : ?$

A 20

B 23

C 24

D 22

**Answer: A**

**Explanation:**

$21 : 36 \Rightarrow 21 \times 2 - 6 = 36.$

Similarly,  $13 : 20 \Rightarrow 13 \times 2 - 6 = 20.$

A is correct choice.

## 20 RRB NTPC Mocks-Tests Rs.149

**Question 56**

Plants respire through?

A Stem

B Stomato

C Flower

D Fruits

**Answer: B**

**Question 57**

Which of these is a perfect square?

- A 9801
- B 9016
- C 9013
- D 9887

Answer: A

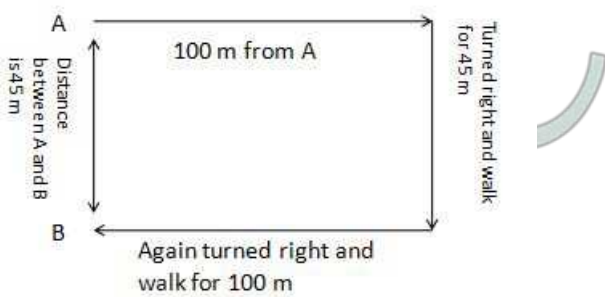
**Question 58**

Anitha walked 100 m from point A and turned right to cover 45 m. Again she turned right and walked 100 m to reach point B. What is the distance between the point A and B?

- A 50 m
- B 100 m
- C 35 m
- D 45 m

Answer: D

Explanation:



D is correct choice.

## 10 RRB JE Mocks-Tests Rs.117

**Question 59**

"Phulkari" is a famous embroidery of which state of India?

- A Punjab
- B Uttar Pradesh
- C Madhya Pradesh
- D Rajasthan

Answer: A

**Question 60**

The difference between Simple Interest and Compound Interest for 2 years on a certain sum at the rate of 4% per annum is Rs.8. Find the sum.

- A Rs.4000

B Rs.10000

C Rs.8000

D Rs.5000

**Answer: D**

**Question 61**

**Bleeding gums is associated with?**

A Rickets

B Scurvy

C Kwashiorkor

D Astigmatism

**Answer: D**

## RRB General Science Notes (Download Pdf)

**Question 62**

**Simplify:  $4.54 \times 0.99$**

A 4.5

B 4.04946

C 4.4946

D 44.946

**Answer: C**

**Explanation:**

$$4.54 \times 0.99$$

$$= 4.54 \times (1 - 0.01)$$

$$= 4.54 - 0.0454$$

$$= 4.4946.$$

C is correct choice.

**Question 63**

**What is formed when ethanol reacts with ethanoic acid on warming in the presence of a few drops of concentrated sulphuric acid?**

A Sodium ethoxide

B Ester

C Ethene

D Ethane

**Answer: B**



**Question 64**

If in a certain code, 'il be pee' means 'roses are blue', 'sik hee' means 'red flowers' and 'pee mit hee' means 'flowers are vegetables', then which of the following means 'roses' in that code?

- A Cannot be determined
- B sik
- C il
- D be

**Answer:** A

**Explanation:**

- (1) 'il be pee' means 'roses are blue'.
- (2) 'sik hee' means 'red flowers'.
- (3) 'pee mit hee' means 'flowers are vegetables'.

From (2) and (3), we get :

hee= flowers and sik= red.

So, We can't inferred that what is the code for 'are'.

Therefore we are not able to find the code for 'roses' and 'blue' and 'vegetables'.

So, A is correct choice.

## RRB GK Material (Download Pdf)

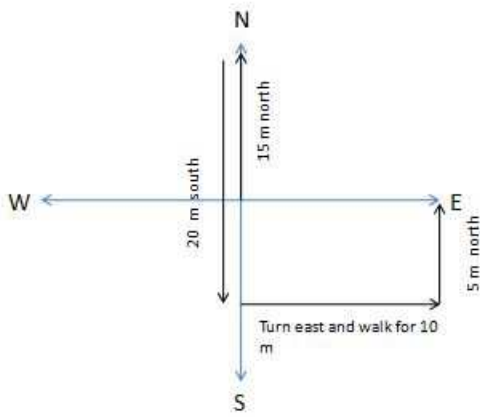
**Question 65**

Ravi starts walking towards north. After walking 15 m, he turns towards south . After walking 20m, he turns towards east and walks 10 m. He then turns towards north and walks 5 m. How far and in which direction is he from his starting point?

- A 10 m, north
- B 10 m, west
- C 10 m, east
- D 10 m, south

**Answer:** C

**Explanation:**



Finally he is at eastward from starting point.

C is correct choice.

#### Question 66

How do bats navigate and locate its food in dark?

- A They send high pitched ultrasonic squeaks which reflect on hitting any obstacle
- B They send and track some infrasonic signals
- C They give some peculiar sound for tracking
- D They use their eyes

Answer: A

#### Question 67

If each side of a cube becomes three times of itself, then its volume \_\_\_\_\_ of its original volume.

- A Becomes 9 times
- B Becomes 27 times
- C Becomes 3 times
- D Becomes 2 times

Answer: B

Explanation:

$$\text{Volume of Sphere} = (\text{Side})^3.$$

If its side become 3 times, then its volume would be =  $(3\text{Side}^3) = 27\text{Side}^3$ .

B is correct choice.

## RRB NTPC Previous Papers (Download PDF)

#### Question 68

Bacteria that can grow and produce lethal toxins even inside the refrigerator are -

- A Salmonellae

- B Streptococcus Faecalis
- C Clostridium Botulinum
- D Escherichia Coli

**Answer: C**

**Question 69**

If consumption of sugar increases from 12 kg to 15 kg, then what is the percentage increase?

- A 39.2%
- B 25%
- C 20%
- D 33.3%

**Answer: B**

**Explanation:**

$$\text{Percentage increase} = \frac{15-12}{12} \times 100 = 25\%$$

B is correct choice.

**Question 70**

What Simple Interest is earned on a sum of Rs. 5700 at 12% rate in 1.5 years?

- A Rs.1400
- B Rs.1070
- C Rs.1026
- D Rs.1820

**Answer: C**

**Explanation:**

$$S.I = 5700 \times 0.12 \times 1.5 = 1026 \text{ Rs.}$$

C is correct choice.

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**Question 71**

Which of the following High Courts has the largest jurisdiction in the country?

- A Allahabad High Court
- B Bombay High Court
- C Gauhati High Court
- D Calcutta High Court

**Answer: C**

Question 72

Equivalent resistance of resistances connected in series is the \_\_\_\_\_ of individual resistances.

- A Sum of squares
- B Sum
- C Product
- D Difference

Answer: B

Question 73

Although metals form basic oxides, which of the following metals form an amphoteric oxide?

- A Na
- B Cu
- C Al
- D Ca

Answer: C

## RRB NTPC Free Mock Tests

Question 74

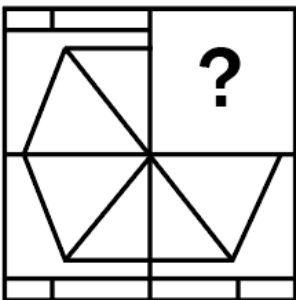
Which of the following elements is NOT part of proteins?

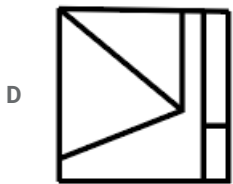
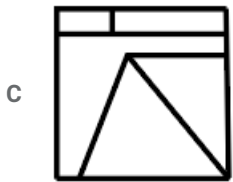
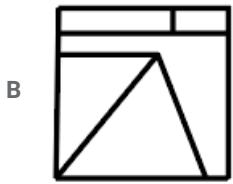
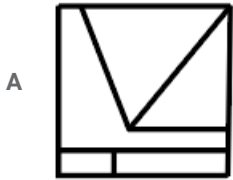
- A Iodine
- B Sulphur
- C Carbon
- D Nitrogen

Answer: A

Question 75

Choose from the alternatives the figure that best completes the pattern given below.





Answer: B

Question 76

The sum of LCM and HCF of two numbers is 372, If LCM is equal to 92 times of HCF and one the numbers is 368, what is the other number?

- A 4
- B 360
- C 92
- D 96

Answer: A

Explanation:

$$LCM + HCF = 372.$$

$$LCM = 92HCF.$$

$$\text{So, } 93HCF = 372.$$

$$\text{OR, } HCF = 4.$$

$$\text{So, } LCM = 368.$$

$$\text{So, Another Number} = \frac{LCM \times HCF}{1st\ number} = \frac{368 \times 4}{368} = 4.$$

A is correct choice.

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

Question 77

The increase in oil production is due to?

- A Brown Revolution
- B Green Revolution
- C White Revolution
- D Yellow Revolution

**Answer:** D

**Question 78**

**What are the two most common materials used to make wires for electricity transmission?**

- A Tungsten and manganin
- B Copper and aluminium
- C Manganin and constantan
- D Nichrome and constantan

**Answer:** B

**Question 79**

**Find the wrong number in the given series. 18, 24, 36, 60, 110, 204**

- A 110
- B 24
- C 18
- D 204

**Answer:** A

**Explanation:**

Rather than 110, each number in the series is divisible by 3.

So, A is correct choice.

## RRB JE Free Mock Test

**Question 80**

**Arsenious sulphide sol is an example of?**

- A Colloids
- B Solids
- C Suspension
- D Solution

**Answer:** A

**Question 81**

**Which of the following issues create(s) threat to the public health?**

- A Pollution, water scarcity and overpopulation
- B Overpopulation
- C Water scarcity
- D Pollution

Answer: A

**Question 82**

Choose the pair which shows the same relationship as in pair given below.

ABD : EGH

- A GHJ : KLN
- B OPR : UTY
- C IJL : MOP
- D IKL : NRT

Answer: C

**Explanation:**

ABD : EGH implies that ,

$$A + 1 = B, B + 2 = D : E + 2 = G, G + 1 = H.$$

Similarly, IJL : MOP ( $I + 1 = J, J + 2 = L : M + 2 = O, O + 1 = P.$ )

So, C is correct choice.

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**Question 83**

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

Statements:

- 1) All dogs are bats.
- 2) All bats are cats.

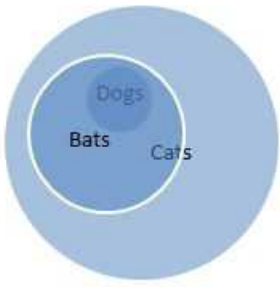
Conclusions:

- I. Some dogs are not cats.
- II. Some cats are dogs.

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

Answer: A

**Explanation:**



So, Some cats are Dogs :- is true.

A is correct choice.

**Question 84**

**Chemically, rust is?**

- A Ferric chloride
- B Hydrated ferric oxide
- C Ferric bromide
- D Ferric sulphide

**Answer: B**

**Question 85**

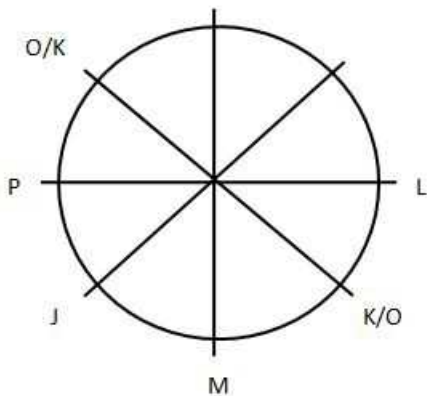
Read the following information carefully and answer the question given below.

Seven managers— J, K, L, M, N, O and P are sitting along a circle facing the centre. J is between P and . L is second to the right of M and is between K and O. K is not the neighbour of N. Which of the following is CORRECT?

- A J is to the immediate left of M
- B M is second to the left of P
- C P is between J and M
- D L is third to the left of J

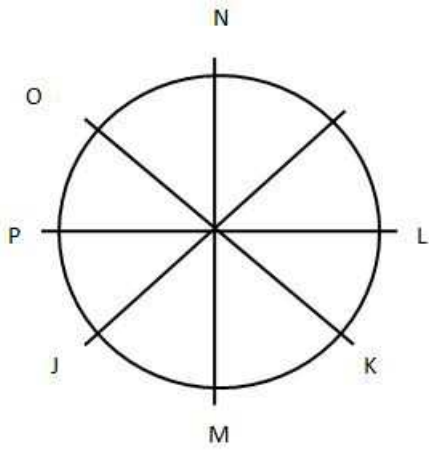
**Answer: A**

**Explanation:**



J is between P and . L is second to the right of M and is between K and O.





K is not the neighbour of N.

So, A is correct choice.

## RRB Group-D Previous Papers

### Question 86

Which of the following will best complete the relationship given below?  $AFI : M :: ABA : ?$

- A O
- B K
- C J
- D L

Answer: B

Explanation:

#### Conversion Table

A = 1	K = 11	U = 21
B = 2	L = 12	V = 22
C = 3	M = 13	W = 23
D = 4	N = 14	X = 24
E = 5	O = 15	Y = 25
F = 6	P = 16	Z = 26
G = 7	Q = 17	
H = 8	R = 18	
I = 9	S = 19	
J = 10	T = 20	

$AFI : M$  means :

$$\sqrt{AFI} = \sqrt{169} = 13 = M.$$

$$\text{Similarly, } \sqrt{ABA} = \sqrt{121} = 11 = K.$$

So, B is correct choice.

### Question 87

Ravi sold two bicycles at the same price, but gained 20% on one and on the other bicycle lost 20%. Find his profit or loss in the transaction involved.

- A Loss of 20%
- B Loss of 4%

C Gain of 10%

D Gain of 20%

**Answer: B**

**Explanation:**

If we gain same as loss by selling an item, then we incur a loss.

Here loss percentage is =  $\left(\frac{20}{100} \times \frac{20}{100}\right) = 0.04 \text{ loss.}$

B is correct choice.

**Question 88**

**Simplify:  $1/(\sec \theta - \tan \theta)$**

A  $(\sec \theta + \tan \theta)$

B  $(\operatorname{cosec} \theta - \cot \theta)$

C  $(\cos \theta + \sin \theta)$

D  $(\sec^2 \theta - \tan^2 \theta)$

**Answer: A**

**Explanation:**

$$\frac{1}{\sec \theta - \tan \theta} = \frac{\sec \theta + \tan \theta}{\sec^2 \theta - \tan^2 \theta} = (\sec \theta + \tan \theta).$$

(we know  $\sec^2 \theta - \tan^2 \theta = 1$ )

A is correct choice.

## RRB Free Videos (You Tube Channel)

**Question 89**

NASA spacecraft LADEE confirmed the presence of \_\_\_\_\_ gas in Moon's atmosphere.

A Xenon

B Radon

C Krypton

D Neon

**Answer: D**

**Question 90**

Electron revolves around nucleus in orbits which have?

A Variable energy

B Infinite energy

C No energy

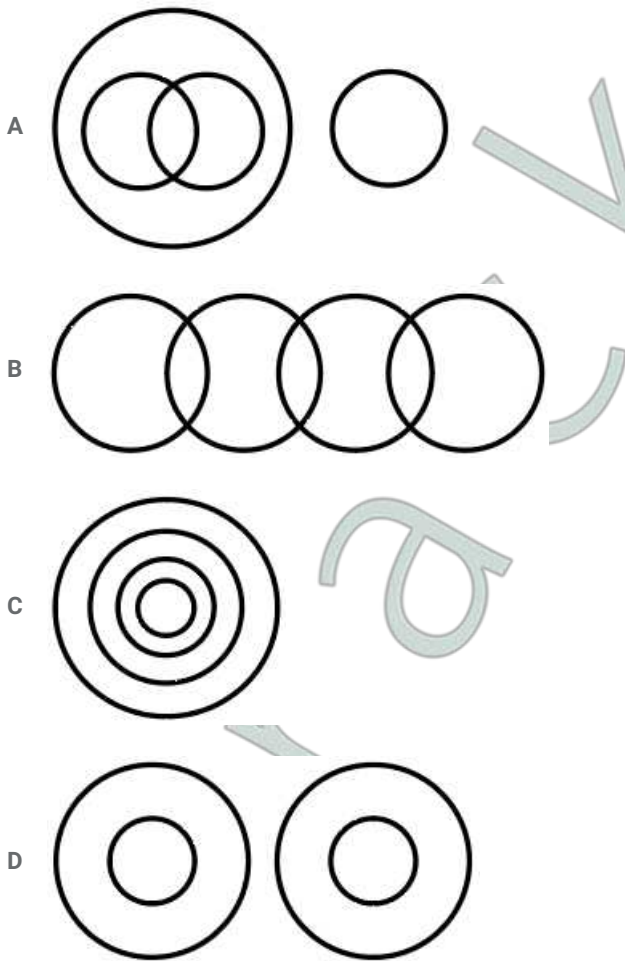
D Fixed energy

**Answer: D**

Question 91

choose the figure that best represents the relationship among the classes given below

State, Continent, District, Country



Answer: C

**Explanation:**

State is made of District, Country is made of State, Continent is made of Country.

So, C is correct choice.

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Question 92

If  $x = \frac{\sqrt{3}+1}{\sqrt{3}-1}$   $y = \frac{\sqrt{3}-1}{\sqrt{3}+1}$  then find the value of  $x^2 + y^2$

- A 14
- B 3
- C 13
- D 0
- E

Answer: A

**Explanation:**

$$x = \frac{\sqrt{3}+1}{\sqrt{3}-1} = \frac{(\sqrt{3}+1)^2}{3-1} = \frac{1}{2} (3 + 2\sqrt{3} + 1) = (2 + \sqrt{3}).$$

$$\text{Similarly, } y = \frac{\sqrt{3}-1}{\sqrt{3}+1} = (2 - \sqrt{3}).$$

$$\text{So, } x^2 = (2 + \sqrt{3})^2 = 4 + 3 + 4\sqrt{3} = (7 + 4\sqrt{3}).$$

$$\text{And, } y^2 = (2 - \sqrt{3})^2 = 4 + 3 - 4\sqrt{3} = (7 - 4\sqrt{3}).$$

$$\text{So, } x^2 + y^2 = 7 + 4\sqrt{3} + 7 - 4\sqrt{3} = 14.$$

A is correct choice.

#### Question 93

Product of two proper fractions is \_\_

- A Always greater than either of the fractions
- B Always less than either of the fractions
- C Sometimes greater and sometimes less than either fraction
- D Greater than the product of their reciprocals

Answer: B

#### Question 94

Which leader said 'Swarajya is my birthright and I shall have it'?

- A Jawaharlal Nehru
- B Bal Gangadhar Tilak
- C Motilal Nehru
- D Bipin Chandra Pal

Answer: B

## 10 RRB JE Mocks-Tests Rs.117

#### Question 95

Which of the following is the longest river in the Peninsular region of India?

- A Narmada
- B Godavari
- C Mahanadi
- D Cauvery

Answer: B

#### Question 96

Find the ODD one out from the given options.

- A Library

B Mathematics

C Chemistry

D Physics

Answer: A

**Explanation:**

Mathematics, Physics and Chemistry are subjects which are used to study in Library.

A is correct choice.

**Question 97**

Find the greatest among these fractions.  $\frac{5}{6}$ ,  $\frac{6}{11}$ ,  $\frac{2}{3}$ ,  $\frac{8}{9}$ ,  $\frac{6}{7}$

A  $\frac{2}{3}$

B  $\frac{5}{6}$

C  $\frac{8}{9}$

D  $\frac{6}{7}$

Answer: C

## RRB General Science Notes (Download Pdf)

**Question 98**

One Pascal (Pa) equals which of the following?

A Newton metre squared  $N\ m^2$

B Newton per metre  $N / m$

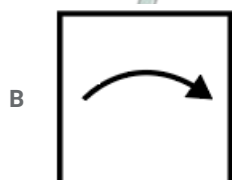
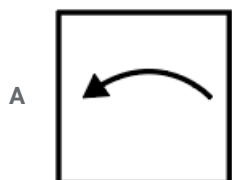
C Newton per metre squared  $N / m^2$

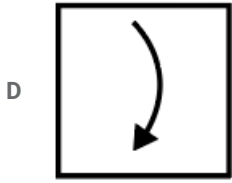
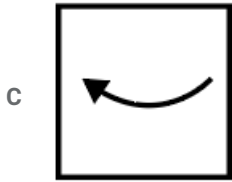
D Newton metre  $N\ m$

Answer: C

**Question 99**

Find the ODD one out from the given options





Answer: A

**Explanation:**

Image in option A is rotated in anti-clockwise direction.

So, A is correct choice.

**Question 100**

Natrium is the Latin name of \_\_\_\_\_.

- A Sulphur
- B Neon
- C Nitrogen
- D Sodium

Answer: D

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