



## RRB Group-D 16th oct 2018-shift -3

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## RRB Group-D 16th Oct 2018-shift -3

### Instructions

For the following questions answer them individually

### Question 1

4 boys visit a garden after every 3, 5, 2 and 6 days, respectively. How many times in a year will they visit the garden on the same day? Consider counting is done from the start of the year.

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

Answer: D

### Explanation:

we have to find L.C.M (3,5,2,6) = 30

after 30 days they meet with each other

so in a year they will meet 12 times,

Hence option 'D' is correct.

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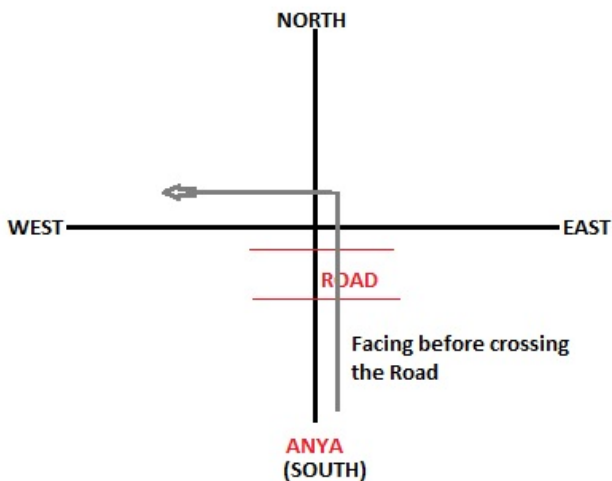
### Question 2

Coming out of her house, Anya crossed a road. On reaching the other side of the road, she took a left turn and walked straight. If she is now in West, which direction was she facing before crossing the road?

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

Answer: C

### Explanation:



Here option 'C' is correct.

**Question 3**

Who among the following activists, associated with the Chipko Movement, is a Ramon Magsaysay Award winner?

- A Chandi Prasad Bhatt
- B Suncierlal Bahuguna
- C Amrita Devi
- D Laura Devi

**Answer: A**

**Question 4**

Who is the Chief Editor of the news channel Times Now?

- A Ravish Kumar
- B Arnab Goswami
- C Rahul Shivshankar
- D Sonia Singh

**Answer: C**

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**Question 5**

What is mixing an acid with water that results in a decrease in the concentration of ions per unit volume called?

- A Dilution
- B Neutralisation
- C Acidification
- D Concentration

**Answer: A**

**Question 6**

Given below is a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

**Statements:**

I like to cook food. I want to become a chef.

**Assumption:**

1. I am a chef.
2. I am not a chef.

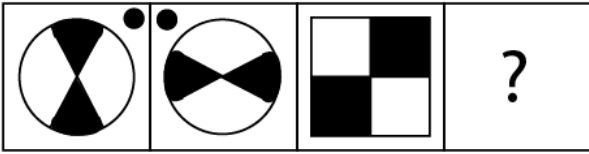
- A Only assumption 1 is implicit
- B Only assumption 2 is implicit
- C Both assumptions 1 and 2 are implicit
- D Either assumption 1 or 2 is implicit

Answer: B

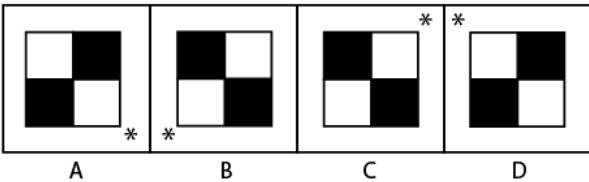
Question 7

Study the following pattern and select the figure that relates to the third figure in the same way that the second figure relates to the first figure:

Problem Figures:



Answer Figures:



A D

B C

C A

D B

Answer: D

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Question 8

Which of the following newspaper was written by Lokamanya Tilak during Indian National movement?

A Bengalee

B Yugantar

C Atnrit bazaar patrika

D Kesari

Answer: D

Question 9

Jayant covers a certain distance in  $2\frac{1}{2}$  hours at a speed of 54 km/h . How much time will Prabhu take to cover the same distance at a speed of 72 km/h ?

A  $2\frac{1}{2}$  hours

B 3 hours

C  $2\frac{1}{5}$  hours

D  $1\frac{7}{8}$  hours

Answer: D

Explanation:

$$\text{distance} = \text{speed} \times \text{time}$$

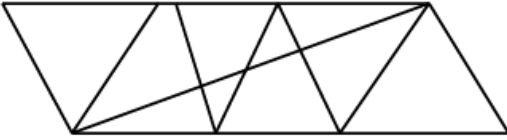
$$\frac{4}{5} \times 54 = 72 \times t$$

from here we can find the value of  $t$  is  $1\frac{7}{8}$  hours

hence option 'D' is correct

### Question 10

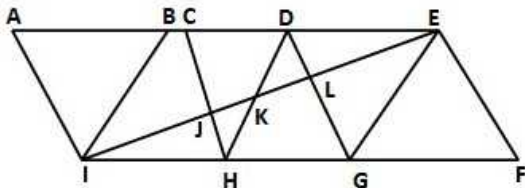
How many triangles are present in the given figure?



- A 18
- B 8
- C 10
- D 6

Answer: A

Explanation:



Here the triangle is AIB, CHD, DHG, DGE, GEF, IJH, JHK, KDL, LGE, IEF, ILG, IKH, IEA, IBE, KDE, JCE, LDE,

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### Question 11

Pabitra had  $19\frac{2}{7}$  l of petrol in the fuel tank of his vehicle at the start of a journey. During the journey,  $13\frac{1}{2}$  l of petrol was consumed. What fraction of the initial petrol was left in the fuel tank after the journey?

- A  $\frac{7}{10}$
- B  $\frac{3}{5}$
- C  $\frac{3}{10}$
- D  $\frac{11}{40}$

Answer: C

### Question 12

The political party that won the majority of seats in 2017 Uttarakhand Legislative Assembly Elections is .....

- A RPI
- B SP

C BJP

D BSP

Answer: C

Question 13

If in a certain language, TREE is coded as USFF how will MANGO be coded in that language?

A OPHNB

B NOPHB

C BHONC

D NBOHP

Answer: D

Explanation:

T +1 U

R +1 S

E +1 F

E +1 F

Similar to the -

M +1 N

A +1 B

N +1 O

G +1 H

O +1 P

Here option 'D' is correct.

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Question 14

Barometer is related to Pressure, in the same way as Seismograph is related to .....

A Flood

B Earthquake

C Humidity

D Temperature

Answer: B

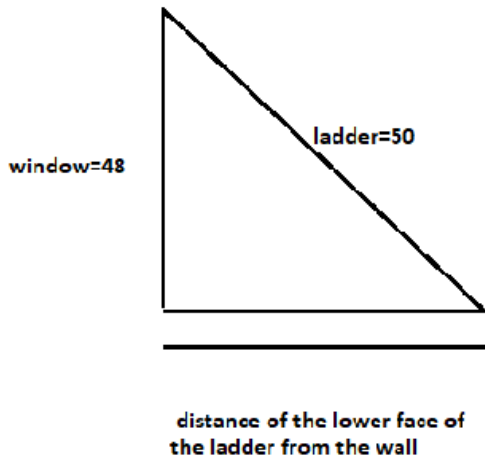
Question 15

When a 50 decimeter long ladder is placed with the wall, it reaches upto the window only. If the window is 48 decimeter up from the land, then find out the distance of the lower face of the ladder from the wall.

- A 14 decimeter
- B 10 decimeter
- C 11 decimeter
- D 12 decimeter

Answer: A

Explanation:



from the above figure ,

we can evaluate the distance =  $50^2 - 48^2 = 14^2$ ,

Hence option 'A' is correct.

#### Question 16

The Emmy Awards, seen in the news, are presented for excellence in which of the following fields?

- A Music
- B Cinema
- C Television industry
- D Literature

Answer: C

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#### Question 17

16, 32, 64, 128, ....The sum of first 10 numbers in the series is:

- A 16368
- B 13668
- C 16386
- D 16638

Answer: A

**Explanation:**

$$16 + 16 \times 2 + 16 \times 4 + 16 \times 8, \dots,$$

$$16(1 + 2 + 4 + 8, \dots),$$

it's sum of G.P so  $a \left( \frac{r^n - 1}{r - 1} \right)$ ,  $a=1, r=2, n=10$ .

$$16 \times (1 \times \frac{2^{10} - 1}{2 - 1}) = 16368$$

hence option "A" is correct.

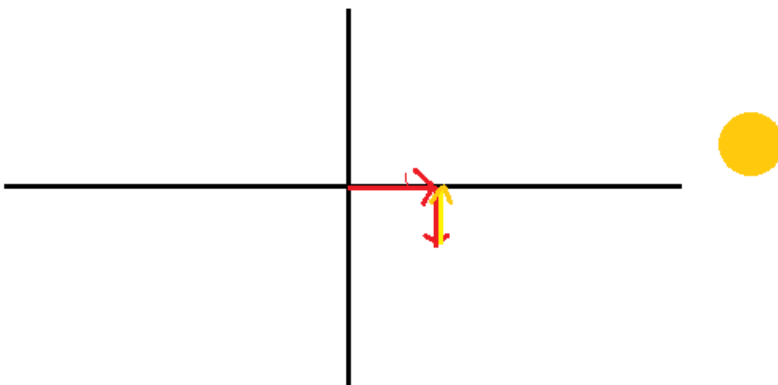
**Question 18**

Mehek goes for a stroll from her home. She starts walking facing the Sun at 6:00 am in the morning and walks 1 km straight. At a crossroads, she takes a right turn and then walks 1 km. Finally, she takes a U-turn and walks again for 1 km. How far is she from her home?

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

**Answer: B**

**Explanation:**



from above figure its clear that she is 1km far is she from her home,

hence option 'B' is correct

**Question 19**

Find the greatest number which is such that when 76, 151, and 226 are divided by it, the remainders are all alike.

- A 60
- B 70
- C 75
- D 69

**Answer: C**



Question 20

Which of the following is an example of a metal that needs to be stored under oil?

- A Potassium
- B Gold
- C Iron
- D Silver

Answer: A

Question 21

A girl is observing a bird silting at a height of 500 in from the ground. The angle of elevation of the bird from the girl's eyes is  $45^\circ$  at the initial position. After some time, the girl moves on the ground towards the bird by 50 in and bird flies away from her At this point, the angle of elevation reduces to  $30^\circ$ . Find the distance travelled by the bird. Take  $\sqrt{3} = 1.73$ .

- A 915 m
- B 415 m
- C 365 m
- D 315 m

Answer: B

Question 22

Pipes A, B and C together can fill a tank in 4 hours. Pipes A and B together can fill the tank in 9 hours. If pipes A, B and C are opened simultaneously, and after 3 hours, pipes A and B are closed, then how many hours will C alone require to fill the tank?

- A 2.25
- B 2
- C 1.5
- D 1.8

Answer: D

Explanation:

efficiency	work	total work
9	A+B+C 4	36
4	A+B 9	

so efficiency of C is 5

A and B works for 3 hours , so remaining work =  $36 - 3 \times 9 = 9$

so C alon can fill the tank in  $\frac{9}{5} = 1.8 \text{ hours}$ ,

hence option 'D' is correct.

**Question 23**

The sides of parallelogram are 12 m and 17 m respectively. If one of the diagonals is 25 m long, the area of parallelogram is:

- A  $160\text{ m}^2$
- B  $180\text{ m}^2$
- C  $150\text{ m}^2$
- D  $190\text{ m}^2$

**Answer: B**

**Question 24**

Motion of a body with constant speed in a circular path is called:

- A Uniform circular motion
- B Non-uniform circular motion
- C Circulatory motion
- D Oscillatory motion

**Answer: A**

**Question 25**

The Indian Government launched which scheme that aims to reduce expenditure by patients on treatment of cancer and cardiovascular diseases to make health care affordable for needy?

- A MAARC (Medical Assistance At Reduced Cost)
- B PADMA (Proper and Due Medical Assistance)
- C AYUSH(Assuring Your Ultimate Security and Health)
- D AMRIT (Affordable Medicine and Reliable Implants for Treatment)

**Answer: D**

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

**Question 26**

Which of the following statements is true for metals?

- A Metals have 1 to 3 valence electrons in their outermost orbit.
- B Metals have 1 to 4 valence electrons in their outermost shell.
- C Metals have 8 valence electrons in their outermost shell.
- D Metals have 4 or more valence electrons in their outermost orbit.

**Answer: B**

**Question 27**

Which one of the following promotes cell division?

- A Auxin
- B Gibberellins
- C CytokininS
- D Abscisic acid

Answer: C

**Question 28**

Which of the following statements is true?

- A The Mass and weight of a body change from place to place.
- B The Mass of a body remains same while the Weight changes from place to place.
- C The Mass of a body changes from place to place while the Weight remains the same.
- D The Mass and Weight of the body remain the same in different places.

Answer: B

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**Question 29**

Who among the following conducts the Oath of Office for the President of India?

- A The Prime Minister of India
- B The Vice President of India
- C The Attorney General of India
- D The Chief Justice of India

Answer: D

**Question 30**

1 joule / second = ?

- A 1 ohm
- B 1 ampere
- C 1 watt
- D 1 coulomb

Answer: C

**Question 31**

An ultrasonic sound wave has a frequency higher than:

- A 20 Hz
- B 20000 Hz

C 200 Hz

D 2000 Hz

Answer: B

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### Question 32

A table costing ₹ 750 was sold at 4% loss. Find out the selling price of the table.

A ₹ 720

B ₹ 780

C ₹ 730

D ₹ 745

Answer: A

### Question 33

Select the lateral mirror image of REACH from the given options.

REACH	HCAER	BEVCH	REACH
A	B	C	D

A A

B D

C C

D B

Answer: D

### Explanation:

Lateral image means image to the side ways.

REACH | HCAER

Option D is correct.

### Question 34

Solve the following equation:

$$11 \div 3 + \frac{1}{9} - 5 \times 6(1 \times \frac{1}{6}) = ?$$

A  $-\frac{1}{9}$

B  $\frac{11}{9}$

C  $\frac{11}{8}$

D  $\frac{-11}{9}$

Answer: D

Explanation:

$$11 \div 3 + \frac{1}{9} - 5 \times 6(1 \times \frac{1}{6})$$

Using BODMAS rule,

$$= \frac{11}{3} + \frac{1}{9} - 30 \times \frac{1}{6}$$

$$= \frac{11}{3} + \frac{1}{9} - 5$$

$$= \frac{33+1-45}{9} = \frac{-11}{9}$$

Option D is correct.

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Question 35

Which of the following can undergo sublimation?

- A Ammonium chloride
- B Ammonium chlorate
- C Ammonium sulphate
- D Ammonium phosphate

Answer: A

Question 36

The forces between two bodies are always:

- A unequal and in the opposite direction
- B equal and in the opposite direction
- C equal and in the same direction
- D isolated forces

Answer: B

Question 37

Deen Dayal Upadhyaya Antyodaya Yojana is also known as:

- A National Urban Health Mission
- B National Urban Livelihood Mission
- C National Rural Health Mission
- D National Rural Livelihood Mission

Answer: B

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**Question 38**

Read the given question and decide which of the following statements is/are sufficient to answer the question.

**Question:**

Which word represents 'give' in the code language?

**Statements:**

1. 'Give me some tea' is written as 'De min to te'.
2. 'Please give' is written as 'Plea de'.

- A Statements 1 and 2 together are sufficient.
- B Statement 1 alone is sufficient.
- C Statements 1 and 2 together are insufficient.
- D Statement 2 alone is sufficient.

**Answer: A**

**Explanation:**

'Give me some tea' is written as 'De min to te'.

'Please give' is written as 'Plea de'.

Using both statements we get, Give means de

So both statements are required.

Option A is correct.

**Question 39**

Three or more lines are ..... if and only if all of them pass through the same point.

- A concurrent
- B parallel
- C perpendicular
- D collinear

**Answer: A**

**Question 40**

In how many years will an amount be doubled at 28.75% annual rate of interest?

- A 3.00
- B 3.90
- C 3.47
- D 6.00

**Answer: C**

**Explanation:**

Let P be the sum which gets doubled in T years

Simple Interest =  $2P - P = P$

$$\text{Simple Interest} = \frac{\text{Principal} \times \text{Rate} \times \text{Year}}{100}$$

$$P = \frac{2P \times R \times T}{100}$$

$$P = \frac{2P \times 28.75 \times T}{100}$$

$$T = \frac{100}{28.75}$$

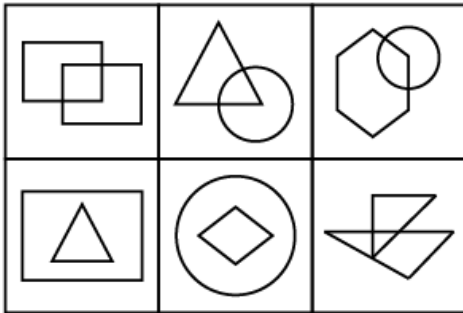
$$T = 3.47 \text{ years}$$

Option C is correct.

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### Question 41

Select the option that groups together the following figures logically.



A 1, 4; 2, 5; 3, 6

B 1, 5; 2, 6; 3, 4

C 1, 6; 2, 5; 3, 4

D 1, 2; 3, 4; 5, 6

Answer: E

### Question 42

Fibers are absent in:

A Liver

B Blood

C Kidney

D Heart

Answer: B

### Question 43

You are given a question and two statements. Identify which of the statements is are sufficient to answer the question.

Question:

Find the value of n.

Statements:

I) if  $x^2 - nx + 1 = 0$

II) If the equation has solution as 'X=1'

A Only II is sufficient

B Both I and II are sufficient

C Either I or II is sufficient

D Only I is sufficient

Answer: B

Explanation:

$$x^2 - nx + 1 = 0$$

Putting the values of  $x=1$ ,

we get,

$$1^2 - n \times 1 + 1 = 0$$

$$n = 0$$

Both statements are required to find the value of  $n$ .

Option B is correct.

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Question 44

A stone is tied to a spring balance. Under which of the following conditions the reading on spring balance will show the least weight?

- A When the stone is partially submerged in the water in a beaker.
- B When the stone is completely submerged in the water in a beaker.
- C When the stone is on the surface of water taken in a beaker.
- D When the stone is suspended in air.

Answer: B

Explanation:

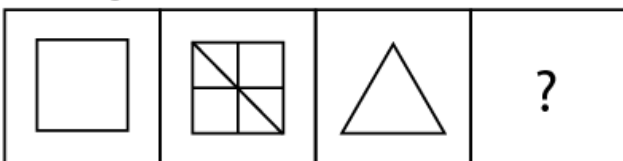
A stone is tied to a spring balance. When the stone is completely submerged in the water in a beaker, the reading on spring balance will show the least weight. This is because the water will exert buoyant force on the stone equivalent to the weight of the stone, for which it will show the minimum reading on the spring balance.

Option B is correct.

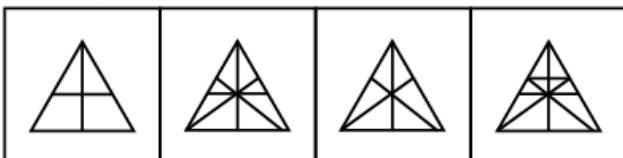
Question 45

Find the next figure for the given series:

Problem Figures:



Answer Figures:



A D

B B

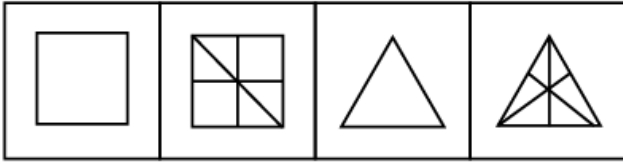
C C



D A

Answer: C

Explanation:



The figure corresponding to the rectangle has 3 line segments crossing each other at a single point. Option C gives the same pattern.

Option C is correct.

Question 46

Rani Lakshmi Bai died in the year ..... while fighting the British.

A 1857

B 1859

C 1856

D 1858

Answer: D

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Question 47

In 1781, Warren Hastings, the first Governor-General of India set up a Madarssa in ..... for the study and teaching of Muslim law.

A Bihar

B Bombay

C Calcutta

D Delhi

Answer: C

Question 48

Select the best option to fill in the blank:

STAR : 1920118, MARS : 1311819, PARK : .....

A 1811611

B 1712812

C 1618111

D 1611811

Answer: D

Explanation:

Here the code is made by the corresponding numbers of the alphabets in the alphabetical series

STAR : 1920118,  
MARS : 1311819,  
So, PARK: 1611811

Option D is correct.

**Question 49**

Which among the following players was awarded Padilla Shri in 2017 for his/her contribution to Indian sports?

- A Sekhar Naik
- B Devendra Jhajharia
- C Brij Bhushan Mohanty
- D Bhupendra Singh

**Answer: A**

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**Question 50**

The 4<sup>th</sup> and 5<sup>th</sup> periods contain:

- A 8 elements
- B 18 elements
- C 11 elements
- D 9 elements

**Answer: B**

**Question 51**

Find the person who does NOT belong to the group.

- A Sunita Williams
- B Kalpana Chawla
- C Mahendra Singh Dhoni
- D Rakesh Sharma

**Answer: C**

**Question 52**

Consider the following statements to be true even if they seem to be at variance from commonly known facts and decide 2 which of the conclusions logically follows from the statements.

**Statement:**

- Some spoons are glasses.
- All the plates are glasses.

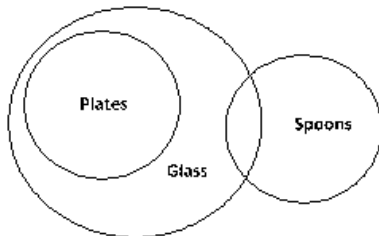
**Conclusions:**

1. Some glasses are plates.
2. Some glasses are spoons.

- A Neither conclusion 1 nor 2 follows
- B Both conclusions 1 and 2 follow
- C Only conclusion 2 follows
- D Only conclusion 1 follows

**Answer: B**

**Explanation:**



- 1. Some glasses are plates. - True
- 2. Some glasses are spoons. - True

Both follows

Option B is correct.

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**Question 53**

Identify the equation of the line with slope = -4 and y-intercept = 2

- A  $2x + \frac{y}{2} = 1$
- B  $2x + y = 1$
- C  $2x + \frac{y}{3} = 1$
- D  $2x + \frac{y}{4} = 1$

**Answer: A**

**Explanation:**

slope = -4 and y-intercept = 2

Slope = m, c = y-intercept

We know the equation of line

$$y = mx + c$$

$$y = -4x + 2$$

$$4x + y = 2$$

Dividing by 2,

$$2x + \frac{y}{2} = 1$$

Option A is correct.

**Question 54**

In which country was the Sano Cricket Curry Festival organised by ICC in 2018?

- A Australia

- B Japan
- C Britain
- D Sri Lanka

**Answer: B**

**Question 55**

..... is a true marine fish

- A Jelly fish
- B Silver fish
- C Dog fish
- D Star fish

**Answer: C**

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**Question 56**

Which of the following, can neither be created nor be destroyed?

- A Force
- B Power
- C Momentum
- D Energy

**Answer: D**

**Question 57**

Which of the following sets are the best insulators?

- A Rubber, glass, plastics, ebonite, cotton, copper
- B Bakelite, dry air, paper, ebonite, aluminium
- C Plastics, ebonite, paper, cotton, Bakelite, dry air, rubber
- D Silver, copper, gold, iron

**Answer: C**

**Question 58**

The square roots of how many factors of 2250 will be natural numbers?

- A 15
- B 4
- C 5

D 6

Answer: B

Explanation:

$$\begin{aligned} \text{Factors of } 15 &= 5 \times 5 \times 5 \times 3 \times 3 \times 3 \times 2 \\ &= 5^3 \times 3^3 \times 2 \end{aligned}$$

So square roots of factors of 2250 will be natural numbers =  $5^2, 2^2, 15^2, 1^2$

So there are 4 square roots of 2250 which will be natural numbers.

Option B is correct.

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Question 59

When two equal forces are acting on a body and opposite in direction, the net force acting on a body becomes .....

- A two times
- B three times
- C zero
- D four times

Answer: C

Question 60

Sultanpur National Park is in .....

- A Delhi
- B Haryana
- C Rajasthan
- D Punjab

Answer: B

Question 61

The distance between two places A and B is 245 km. Two cars, one from A and the other from B, start at the same time, travelling towards each other. If one car travels at a speed of 40 km/h and the other at 30 km/h, after how many hours will they meet?

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

Answer: C

Explanation:

The distance between two places A and B is 245 km. Two cars, one from A and the other from B, start at the same time, travelling towards each other. One car travels at a speed of 40 km/h and the other at 30 km/h.

$$\text{Time} = \frac{\text{Total distance between them}}{\text{Relative Speed}}$$

$$= \frac{245}{30+40} \text{ (+ done because both are travelling towards each other)}$$

$$= \frac{245}{70}$$

$$= \frac{7}{2} = 3\frac{1}{2}$$

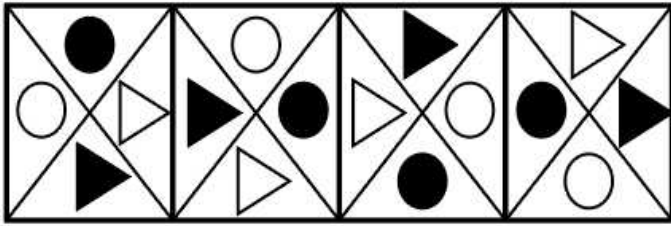
Option C is correct.

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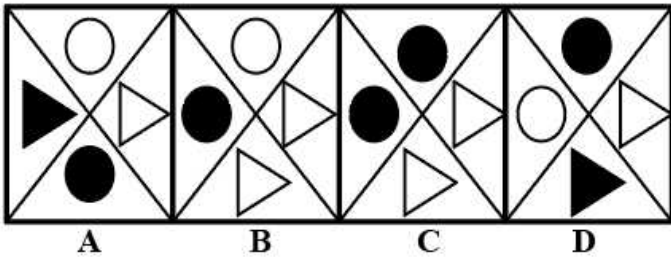
### Question 62

Select the answer figure that will come next in the given problem figure series.

#### Problem Figures:



#### Answer Figures:



A C

B D

C B

D A

Answer: B

### Question 63

'A Billion Dreams' is a 2017 Indian docudrama-biographical film based on the life of which Indian cricketer?

A M. S. Dhoni

B Virat Kohli

C Sachin Tendulkar

D Sunil Gavaskar

Answer: C

### Question 64

The reproductive parts of angiosperms are located in the:

- A leaves
- B flowers
- C roots
- D stems

Answer: B

## RRB General Science Notes (Download Pdf)

### Question 65

Read the given statement and choose which argument is strong.

**Statement:**

**Playing outdoor games is better than being on a computer or playing mobile games.**

**Argument:**

**I: Yes, playing outdoor games keeps children physically and mentally fit.**

**II: No, computer or mobile games are more entertaining than outdoor games.**

- A Both arguments I and II are strong
- B Neither argument I nor II is strong
- C Only argument II is strong
- D Only argument I is strong

Answer: D

**Explanation:**

Playing outdoor games keeps children physically and mentally fit which is not possible while playing indoors and video games. And also outdoor games are fun and entertaining.

So only argument 1 is strong as per the given statement.

Option D is correct.

### Question 66

**A  $8\Omega$  resistance wire is doubled on it. Calculate the new resistance of the wire.**

- A 1.25  $\Omega$
- B 1.00  $\Omega$
- C 1.5  $\Omega$
- D 2.00  $\Omega$

Answer: D

**Explanation:**

When the wire is doubled the length will be halved and area will be double or twice

$$R = \frac{P \times L}{A}$$

$$R_1 = \frac{P \times \frac{L}{2}}{\frac{2A}{2}}, \text{ where } R_1 \text{ is the new resistance}$$

$$\frac{R_1}{R} = \frac{\frac{2A}{2} \times \frac{L}{2}}{A \times L}$$

$$\frac{R1}{R} = \frac{1}{4}$$

$$R1 = \frac{R}{4}$$

Putting the value of  $R=8 \Omega$ ,

$$R1 = \frac{8}{4} = 2\Omega$$

Option D is correct.

#### Question 67

Find the LCM of 63 and 140.

- A 126
- B 63
- C 14
- D 1260

Answer: D

Explanation:

$$63 = 7 \times 3 \times 3$$

$$140 = 7 \times 2 \times 5 \times 2$$

$$LCM = 7 \times 5 \times 2 \times 2 \times 3 \times 3 = 1260$$

Option D is correct.

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#### Question 68

The atmospheric pressure at sea level is ..... atm.

- A 0.001
- B 1
- C 0
- D 0.1

Answer: B

#### Question 69

Consider the following question and decide which of the statements is sufficient to answer the question.

Question:

Find the seventh letter in the series (Arithmetic progression)

Statements:

- I. if the first letter in the series is 2.
- II. if the common difference in A.P is 3.

- A Only statement I is sufficient
- B Both statements I and II are sufficient
- C Either statement I or II is sufficient
- D Only statement II is sufficient



Answer: B

Explanation:

a = 2 be the first term and b be the 7th term.

d is common difference = 3

As per Arithmetic Progression formula,

$$b = a + (n - 1) \times d$$

$$= 2 + (7 - 1) \times 3$$

$$= 20$$

So both statements are required.

Option B is correct.

Question 70

An element having atomic number 17 will resemble which of the following elements having Atomic number as given below?

A 33

B 34

C 18

D 35

Answer: D

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Question 71

₹ 775, invested for 6 years gives an interest of ₹ 372. The rate of simple interest per annum is:

A 8%

B 7%

C 9%

D 7.5 %

Answer: A

Explanation:

$$\text{Simple Interest} = \frac{\text{Principal} \times \text{Rate} \times \text{Time}}{100}$$

$$372 = \frac{775 \times R \times 6}{100}$$

$$R = \frac{100 \times 372}{775 \times 6}$$

$$R = 8\%$$

Option A is correct.

Question 72

If Raj drives faster by 10 km/h, he reaches his village 90 minutes early. If he drives slower by 10 km/h, he reaches the village 150 minutes late. Find the distance he travels.

A 500 km

- B 400 km
- C 600 km
- D 300 km

Answer: D

**Question 73**

Read the following table carefully and answer the question given below:

Classification of 100 students based on the marks obtained by them in Mathematics and Science in an Engineering Entrance Examination

Mark out of 50	40 and above	30 and above	20 and above	10 and above	0 and above
Subject					
Maths	23	26	70	90	100
Science	15	36	75	95	100
(Aggregate) Average	19	31	80	93	100

The number of students scoring less than 60% marks aggregate is:

- A 27
- B 65
- C 69
- D 50

Answer: C

Explanation:

$$60\% \text{ of } 50 = \frac{60}{100} \times 50 = 30$$

The number of students scoring less than 60% marks aggregate is = 100-31 = 69

Option C is correct.

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**Question 74**

Sound is produced by .....

- A swinging bodies
- B moving objects
- C talking people
- D vibrating objects

Answer: D

**Question 75**

The organs that have different basic structure (or different basic design) but have similar appearance and perform 5 similar functions are called:

- A biogenetic law
- B analogous organs
- C homologous organs
- D fossils

Answer: B

**Question 76**

Periyar National Park is in .....

- A Tamil Nadu
- B Goa
- C Karnataka
- D Kerala

Answer: D

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**Question 77**

Pipe A can fill an empty cistern in 15 hours while Pipe B takes 25 hours to fill it. Initially Pipe A is left open for some time and then closed and Pipe B is switched on immediately. In all the cistern takes 21 hours to be filled. How long was Pipe A open?

- A 3 hours
- B 7.5 hours
- C 6 hours
- D 9 hours

Answer: C

**Explanation:**

Pipe A can fill an empty cistern in 15 hours while Pipe B takes 25 hours to fill it. Initially Pipe A is left open for some time and then closed and Pipe B is switched on immediately. In all the cistern takes 21 hours to be filled.

**Time Taken    Work Done    Efficiency**

A - 15      **LCM (15,25)**       $\frac{75}{15} = 5$

B - 25      **= 75**       $\frac{75}{25} = 3$

Let x be time for which Pipe A was open

So according to question,

$$A \times x + B(21 - x) = 75$$

$$5 \times x + 3(21 - x) = 75$$

$$2x + 63 = 75$$

$$2x = 12$$

$$x = 6$$

Option C is correct.

Question 78

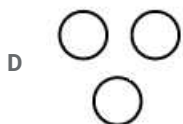
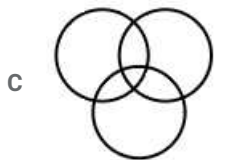
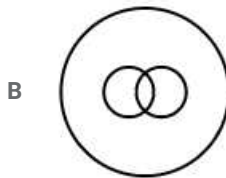
The aim of Setu Bharatam Programme of Government of India is:

- A To build bridges on national highways
- B To build bridges that connect coastal areas
- C To build bridges in rural areas
- D To build bridges across rivers and seas for transportation of goods

Answer: A

Question 79

Identify the Venn diagram that best represents the following classes:  
Grapes. Pineapples. Fruits:



Answer: A

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Question 80

The supplement of an angle is  $15^\circ$  more than three times its complement. The measure of the angle is:

- A  $72.5^\circ$
- B  $52.5^\circ$
- C  $57.5^\circ$
- D  $65^\circ$

Answer: B

**Explanation:**

Supplement of angle =  $180 - x$  and complement of angle =  $90 - x$

$$180 - x = 3(90 - x) + 15$$

$$165 - x = 270 - 3x$$

$$-x + 3x = 270 - 165$$

$$2x = 105$$

$$X = \frac{105}{2}$$

$$X = 52.5^\circ$$

Option B is correct.

**Question 81**

In the context of Indian economy, which of the following is a subject under the primary sector?

- A Health
- B Banking
- C Education
- D Agriculture

**Answer: D**

**Question 82**

What happens when dilute hydrochloric acid is added to iron filings?

- A Only chloride are produced
- B Hydrogen gas and iron chloride are produced
- C No reaction take place
- D Only hydrogen gas is produced

**Answer: B**

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**Question 83**

The inner and outer circumference of a circular ring is 22 cm and 44 cm, respectively. What is the thickness of the ring?

- A 5.5 cm
- B 2.5 cm
- C 3.5 cm
- D 1.5 cm

**Answer: C**

**Explanation:**

The inner and outer circumference of a circular ring is 22 cm and 44 cm, respectively.

Let  $r_1$  and  $r_2$  be the inner and outer radius of the ring.

$$2\pi \times r_1 = 22$$

$$r_1 = \frac{7}{2}$$

$$2\pi \times r_2 = 44$$

$$r_2 = 7$$

$$\text{Thickness} = r_2 - r_1 = 7 - \frac{7}{2} = \frac{7}{2} = 3.5$$

Option C is correct.

#### Question 84

Select the option that is related to the third term in the same way as the second term is related to the first term:  
Deep : Swallow :: Best : .....

A Better

B Good

C Worst

D Meagre

Answer: E

#### Question 85

Solve the below equation.

$$\left\{ 1 + \frac{1+2}{2} \right\}_{1+(1+3)} = ?$$

A  $\frac{9}{4}$

B  $\frac{6}{5}$

C  $\frac{21}{4}$

D  $\frac{21}{5}$

Answer: B

Explanation:

$$\frac{1+2}{1+(1+3)}$$

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

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

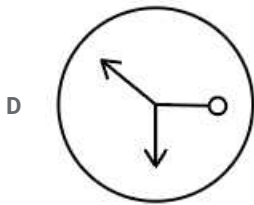
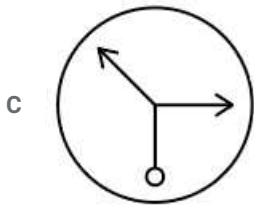
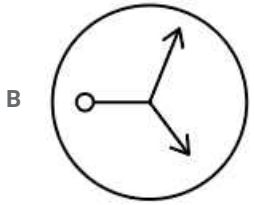
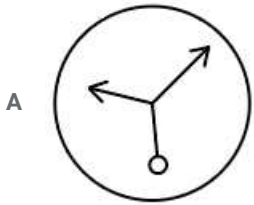
$$= \frac{6}{5}$$

Option D is correct.

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#### Question 86

Select the figure that is different from the other three.



Answer: C

#### Question 87

Read the given statement(s) and conclusion carefully and select which of the options is possible.

Statement:

1. Nitrogen is a gas.
2. This chamber has gas.

Conclusion:

This chamber contains nitrogen gas.

- A Definitely false
- B False
- C True
- D Probably true or false

Answer: D

Explanation:

Nitrogen is a gas, but the room has gas doesn't necessarily mean that the room has nitrogen gas. So the conclusion is probably true or false.

Option D is correct.

#### Question 88

The value of  $(-45 + 7 \times 23 - (247 \div 13) - 11) \div 2$  is:

- A 43

B -47

C 86

D -14

Answer: A

Explanation:

$$\begin{aligned} & (-45 + 7 \times 23 - (247 \div 13) - 11) \div 2 \\ &= (-45 + 161 - 19 - 11) \div 2 \\ &= (86) \div 2 \\ &= 43 \end{aligned}$$

Option A is correct.

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Question 89

If 350 marbles are shared between Sita and Savita in the ratio 5 : 9, Savita will get ..... marbles.

A 200

B 250

C 225

D 125

Answer: C

Explanation:

If 350 marbles are shared between Sita and Savita in the ratio 5 : 9, so let Sita and Savita share be  $5x$  and  $9x$  respectively.

$$\begin{aligned} 5x + 9x &= 350 \\ = 5x + 9x &= 350 \\ = 14x &= 350 \\ = x &= 25 \end{aligned}$$

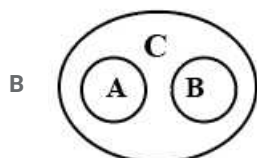
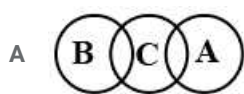
So Savita's share  $25 \times 9 = 225$

Option C is correct.

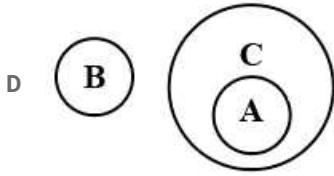
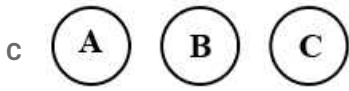
Question 90

Which of the following Venn diagrams correctly represents the relationship between the following classes?

- A) Electron
- B) Proton
- C) Atom



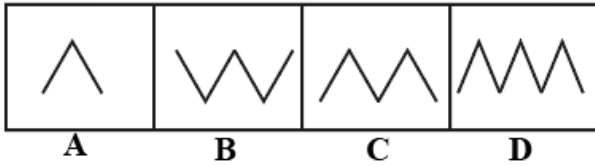




Answer: B

Question 91

Find the odd figure out from among the given figures.



A D

B B

C A

D C

Answer: B

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Question 92

Which of the following statements is true?

- A Carbon dioxide diffuses from lungs into blood and oxygen diffuses from blood into lungs.
- B Carbon monoxide diffuses from lungs into blood and oxygen diffuses from blood into lungs.
- C Oxygen diffuses from lungs into blood and carbon dioxide diffuses from blood into lungs.
- D Oxygen diffuses from lungs into blood and carbon monoxide diffuses from blood into lungs.

Answer: C

Question 93

Who is the first Indian female cricketer to score 2000 runs in T20 International Cricket?

- A Harmanpreet Kaur
- B Poonam Raut
- C Mithali Raj
- D Smriti Mandhana

Answer: C

**Question 94**

Solve the following equation:

$$\frac{3^2 - 8^2}{(3+8)^2} = ?$$

A  $\frac{-3}{11}$

B  $\frac{3}{11}$

C  $\frac{5}{11}$

D  $\frac{-5}{11}$

**Answer:** D

**Explanation:**

$$\frac{3^2 - 8^2}{(3+8)^2}$$

$$= \frac{9 - 64}{(11)^2}$$

$$= \frac{-55}{121}$$

$$= \frac{-5}{11}$$

Option D is correct.

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**Question 95**

Complete the number series by choosing the correct options.

1, 8, 27, 64, ....., ....., 343, ....., 729.

A 125, 216, 512

B 125, 262, 515

C 125, 213, 510

D 145, 261, 512

**Answer:** A

**Explanation:**

$$1 = 1^3$$

$$8 = 2^3$$

$$27 = 3^3$$

$$64 = 4^3$$

$$125 = 5^3$$

$$216 = 6^3$$

$$343 = 7^3$$

$$512 = 8^3$$

$$729 = 9^3$$

Option A is correct.

**Question 96**

**Which movie won the Oscars for Best Picture in 2017?**

- A Manchester by the Sea
- B La La Land
- C Moonlight
- D Spotlight

**Answer: C**

**Question 97**

**Read the given statement and choose which argument is strong.**

**Statement:**

**Watching cartoon movies is better than reading books.**

**Arguments:**

**I. Yes, watching cartoon movies is entertaining.**

**II. No, reading books inculcates love of knowledge and reading habit in children.**

- A Only argument I is strong
- B Only argument II is strong
- C Both arguments I and II are strong
- D Neither argument I nor II is strong

**Answer: B**

**Explanation:**

Reading books inculcates love of knowledge and reading habit in children, which in turn helps for all round development of children.

So argument 2 is strong for the given statement.

Option B is correct.

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**Question 98**

**What does the KUSUM Scheme promote?**

- A Solar heating in homes
- B Solar lighting in industries
- C Solar-powered transport
- D Solar farming

**Answer: D**

**Question 99**

**The ratio of two numbers is 5 : 6 and their LCM is 150. Find the sum of the two numbers.**

- A 50
- B 60

C 54

D 55

Answer: D

**Explanation:**

The ratio of two numbers is 5 : 6, so the nos be 5x and 6x

LCM of 5x and 6x = 30x

$$30x = 150$$

$$x = 5$$

So the sum will be  $5 \times 5 + 6 \times 5 = 55$

Option D is correct

**Question 100**

Consider the following statements.

1. Mode can be computed from histogram
  2. Median is not independent of change of scale
  3. Variance is independent of change of origin and scale
- Which of these is/are correct?

A Only (2)

B Only (1) and (2)

C Only (1)

D All (1), (2) and (3)

Answer: B

**Explanation:**

Variance is independent of change of origin but is dependent on change of scale. So only 1 and 2 are correct.

Option B is correct.

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