



## RRB Group-D 17th Sep 2018-shift -2

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## RRB Group-D 17th Sep 2018-shift -2

### Instructions

For the following questions answer them individually

### Question 1

Choose the correct order of electrical resistivity of metals.

- A  $Ag > W > Ni > Hg$
- B  $Hg > Ni > W > Ag$
- C  $Ag > Ni > Hg > W$
- D  $Ag > W > Hg > Ni$

Answer: B

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### Question 2

Rise in sugar levels in blood is detected by the cells of:

- A Liver
- B Gall bladder
- C Kidney
- D Pancreas

Answer: D

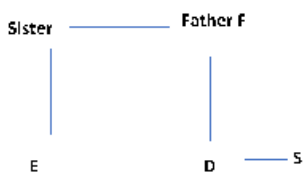
### Question 3

F is the Father of S and D. D's Paternal aunt's daughter is E. How is F related to E?

- A Maternal Uncle
- B Daughter-in-law
- C Daughter
- D Nephew

Answer: A

Explanation:



F is Maternal Uncle of E.

Option A is correct.

Question 4

Who among the following is the author of the book 'A Book of Light: When a Loved One Has a Different Mind'?

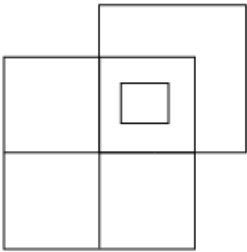
- A Arundhati Roy
- B Amish Tripathi
- C Jelly Pinto
- D Harper Lee

Answer: C

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Question 5

Find the number of squares in the following figure.



- A 6
- B 8
- C 7
- D 5

Answer: C

Question 6

The length and breadth of a rectangle is in the ratio of 3 : 1. If its perimeter is 96 m, then what is the length of the rectangle?

- A 36 m
- B 24 m
- C 12 m
- D 48 m

Answer: A

Explanation:

Let the length of the rectangle be  $3x$  and breadth be  $1x$

Given, perimeter = 96 m

$$\therefore 2(l + b) = 96 \text{ (or) } l + b = 48 \text{ (or) } 3x + 1x = 48 \text{ (or) } x = 12 \text{ m}$$

Now, Length of the rectangle =  $12 \times 3 = 36 \text{ m}$

Hence, option A is the correct answer.

**Question 7**

How many elements are present in the 18<sup>th</sup> group of the Modern Periodic Table?

- A 5
- B 2
- C 6
- D 4

**Answer:** E

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**Question 8**

..... is not a sub atomic particle of an atom.

- A Neutron
- B Electron
- C Xenon
- D Proton

**Answer:** C

**Question 9**

Consider the given statement and decide which of the following assumptions is/are implicit in the statement.

**Statement:**

The headmistress called for a meeting for all staff members to discuss on discipline issues.

**Assumptions:**

- I. There were some discipline issues that were raised earlier.
- II. The headmistress wants to address all of them together.

- A Only I is implicit.
- B Only II is implicit.
- C Both I and II are implicit.
- D Neither I nor II is implicit.

**Answer:** A

**Explanation:**

There were some discipline issues that were raised earlier for which the headmistress called for a meeting for all staff members.

So assumption 1 is implicit for this statement.

Option A is correct.

**Question 10**

A person lifts luggage of 20 kg from the ground and puts it on his head 2 m above the ground. Calculate the work done by him. ( $g = 10 \text{ ms}^{-2}$ )

- A 20 J

- B 400 J
- C 200 J
- D 40 J

**Answer: B**

**Explanation:**

$M = 20\text{kg}$   
 $g = 10\text{m/s}^2$   
 $h = 2\text{m}$

As work done by an object is equal to the potential energy stored in an object.

Therefore,

$$W = mgh$$

$$= 20 \times 10 \times 2$$

$$= 400 \text{ J}$$

Option B is correct.

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**Question 11**

A natural number, when divided by 9, 10, 12 or 15, leaves a remainder of 3 in each case. What is the smallest of all such numbers?

- A 183
- B 153
- C 63
- D 123

**Answer: A**

**Explanation:**

LCM of 9,10,12,15 is 180

Smallest natural number to get remainder of 3 is  $(180 + 3) = 183$

Hence, option A is the correct answer.

**Question 12**

Rama Setu is located in which of the following?

- A Palk Strait
- B Strait of Gibraltar
- C Kiel Canal
- D Bering Strait

**Answer: A**

**Question 13**

Which of the following is a work done by the placenta tissue in humans?

- A Support the embryo

- B Removes waste matter from the embryo and provide nutrition to the embryo
- C Provide nutrition to the embryo
- D Remove waste matter from the embryo

Answer: B

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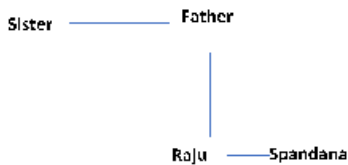
### Question 14

Spandana is the sister of Raju. How is Raju's father's sister related to Spandana?

- A Grandmother
- B Mother
- C Aunt
- D Sister

Answer: C

Explanation:



Option C is correct.

### Question 15

Which of the following doesn't fit into the series?

5-1-96, 27-1-96, 18-2-96, 12-3-96, 2-4-96.

- A 18-2-96
- B 27-1-96
- C 12-3-96
- D 5-1-96

Answer: C

Explanation:

5-1-96, 27-1-96, 18-2-96, 12-3-96, 2-4-96.

These are dates, and each of them should have 22 days in between, but for dates between 18-2-96 and 12-3-96 there are 23 days, so 12-3-96 doesn't fit the series.

Option C is correct.

### Question 16

Teacher is related to Class in the same way Driver is related to

- A Brake

- B Wheel
- C Parts
- D Vehicle

Answer: D

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Question 17

$$\binom{55}{11} + (18 - 6) \times 9 = ?$$

- A 113
- B 115
- C 100
- D 110

Answer: A

Explanation:

$$\text{Given, } \binom{55}{11} + (18 - 6) \times 9 = ?$$

$$= 5 + 12 \times 9$$

$$= 5 + 108$$

$$= 113$$

Hence, option A is the correct answer.

Question 18

Weight of an object on the moon is ..... the weight of the object on earth.

- A equal to
- B 1/6th
- C 1/2
- D 1/5th

Answer: B

Question 19

48 people could complete a task in 17 days. After 6 days, 4 of the workers left. How many days from then will it take to complete the task?

- A 12
- B 13
- C 15
- D 16

Answer: A

**Explanation:**

Given, 48 people can do a work in 17 days. So total work =  $48 \times 17 = 816$

Work done by 48 people in 6 days = 288. The remaining work =  $816 - 288 = 528$

After 6 days four workers left. So number of people working is 44

Total number of days required for 44 men to complete the remaining work =  $528/44 = 12$

Hence, option A is the correct answer.

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**Question 20**

What was the name of the party launched by Subhash Chandra Bose in 1939?

- A Communist Party of India
- B All India Forward Bloc
- C Azad Bengal Fauj
- D Socialist Party of India

**Answer: B**

**Question 21**

Which tissue makes the plant hard and stiff?

- A Parenchyma
- B Sclerenchyma
- C Collenchyma
- D Xylem

**Answer: B**

**Question 22**

Out of the 60 students of a class, 29 took Mathematics, 32 took Biology and 8 took none of the two subjects. How many students took both Mathematics and Biology?

- A 8
- B 9
- C 7
- D 6

**Answer: B**

**Explanation:**

Number of students who took only Mathematics  $n(m) = 29$

Number of students who took only biology  $n(b) = 32$

Total number of students  $n(t) = 60$

Total number of students of both mathematics and biology  $n(m \cup b) = 60 - 8 = 52$

Total number of students who took both =  $32 + 29 - 52 = 9$



Hence, option B is the correct answer.

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### Question 23

Which property of metals enables production of metallic foils?

- A Malleability
- B Ductility
- C Sonority
- D Conductivity

Answer: A

### Question 24

If 'Q' means '+', 'J' means '×', 'T' means '-' and 'K' means '÷', then what is the value of  $18K3Q7J2T8$  ?

- A 15
- B 10
- C 18
- D 12

Answer: D

Explanation:

$18K3Q7J2T8$

'Q' means '+', 'J' means '×', 'T' means '-' and 'K' means '÷'

$$18 \div 3 + 7 \times 2 - 8$$

$$= 6 + 14 - 8$$

$$= 12$$

Option D is correct.

### Question 25

..... is a deliquescent compound.

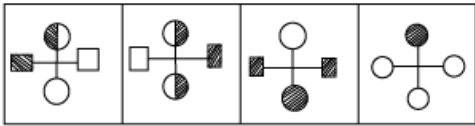
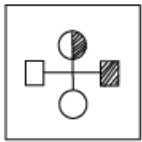
- A Quick lime
- B Sulphuric acid
- C Phosphorous pentoxide
- D Magnesium chloride

Answer: E

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Question 26

Choose the mirror image for the following figure when the mirror is kept at the MN line.



A B C D

A C

B D

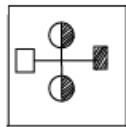
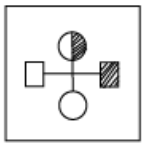
C A

D B

Answer: C

Explanation:

Image A is the lateral mirror image of the given figure.



Option C is correct.

Question 27

In which year was Bombay Stock Exchange (BSE) established?

A 1947

B 1875

C 1920

D 1960

Answer: B

Question 28

Which company has been conferred with the 'Startup of the Year 2017' award at the 7<sup>th</sup> Small Business Awards, in New Delhi?

A Milkbasket

B Milkmaid

C Milkdairy

D Milkbar

Answer: A

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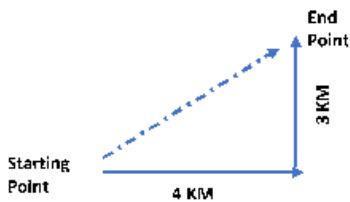
Question 29

Raju walks 4 km towards East. Then, he turns left and walks another 3 km. In which direction and at what distance is he from his initial position?

- A South-West, 5 km
- B North-East, 5 km
- C South-East, 5 km
- D North-West, 5 km

Answer: B

Explanation:



$$\text{Distance } \sqrt{4^2 + 3^2} = \sqrt{16 + 9} = 5$$

Option B is correct.

Question 30

The mean of 21 observations (all different) is 40. If each observation greater than the median is increased by 21, then the mean of observations will become:

- A 50
- B 30
- C 50.5
- D 45

Answer: A

Explanation:

Given that the mean of 21 observations is 40. So total sum =  $21 \times 40 = 840$

The median of the number =  $(n+1)/2 = 22/2 = 11$ th number

Given that the observations greater than median i.e 11th number is increased by 21. There are 10 observations like that.

Total sum becomes  $840 + 210 = 1050$

The new mean will be  $1050/21 = 50$

Hence, option A is the correct answer.

Question 31

Who was awarded Banga Bibhushan, the highest civilian award of West Bengal, for 2018?

- A Aparna Sen

- B Victor Banerjee
- C Soumitra Chatterjee
- D Asha Bhosle

Answer: D

## RRB GK Material (Download Pdf)

### Question 32

Let A(0,-1), B(0,3) and C(2,1) be three points. Let  $\Delta_1$  be the area of the triangle ABC and  $\Delta_2$  be the area of the triangle formed by the mid points of the sides of the triangle whose vertices are A, B and C such that  $\frac{\Delta_1}{\Delta_2} = \frac{1}{x}$ . Find the value of  $x$ .

- A 4
- B 5
- C 2
- D 3

Answer: A

#### Explanation:

Let the vertices of the triangle be A(0,-1), C(2,1), B(0,3)

Let D, E, F be the mid-points of the sides of this triangle.

Let  $\Delta_1$  be the area of the triangle ABC and  $\Delta_2$  be triangle DEF

Coordinates of D, E, and F are given by

$$D = \left( \frac{0+2}{2}, \frac{-1+1}{2} \right) = (1, 0)$$

$$E = \left( \frac{0+0}{2}, \frac{-1+3}{2} \right) = (0, 1)$$

$$F = \left( \frac{2+0}{2}, \frac{1+3}{2} \right) = (1, 2)$$

$$\text{Area of a triangle} = \frac{1}{2} [x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)]$$

$$\text{Area of } \Delta_{DEF} = \frac{1}{2} [1(2 - 1) + 1(1 - 0) + 0(0 - 2)] = 1 \text{ unit}$$

$$\text{Area of } \Delta_{ABC} = \frac{1}{2} [0(1 - 3) + 2(3 - (-1)) + 0(-1 - 1)] = 4 \text{ unit}$$

$$\frac{\Delta_1}{\Delta_2} = \frac{1}{x} = \frac{1}{4}$$

So  $x = 4$

Option A is correct.

### Question 33

Ranjith can complete a task in 25 days while Anji can finish it in 20 days. They work together on the task for 5 days and then Ranjith leaves. In how many days will Anji finish the remaining work?

- A 15 days
- B 10 days
- C 11 days
- D 9 days

Answer: C

**Explanation:**

Lcm of 25 and 20 is 100. So total work = 100 units

Ranjith can do 4 units per day while anju can do 5 units per day

They together complete 5 days of work i.e  $9 \times 5 = 45$  units

The remaining 55 units of work is done by anju in  $55/5$  days (or) 11 days

Hence, option C is the correct answer.

**Question 34**

..... solution is used to treat bee sting.

A Lemon juice

B Milk

C Vinegar

D Baking soda

Answer: D

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**Question 35**

The mass number of an isotope of an element is 298. If its nucleus has 189 neutrons, what is its atomic number?

A 298.0

B 189.0

C 109.0

D 487.0

Answer: C

**Question 36**

Select the option figure that will complete the series of question figures.

**Question Figures**

*◀△	>▲*△	△>*▶	?
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**Option Figures**

A	B	C	D
△>▲*	△>*▼	*△>◀	▼△>*

A B

B D

C C

D A

Answer: B

Explanation:

* ◀ ▲ ▶	> ▲ * ▲	▲ > * ▶	▼ ▲ > *
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Option B is correct.

Question 37

LCM of two co-prime numbers  $a$  and  $b$  is ( $a$  is greater than  $b$ ):

A  $a$

B  $a+b$

C  $ab$

D  $b$

Answer: C

Explanation:

LCM of two co-prime numbers  $a$  and  $b$  will be  $a \times b = ab$

Option C is correct.

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Question 38

You are given a question and two statements. Identify which of the statements is/are necessary, Sufficient to answer the question. M, A, N and K are standing in a row. Based on the following information, if we aim to shortest to tallest, who is standing last?

Statements:

1. A is shorter than K
2. M is shorter than A

A Statements 1 and 2 together are not sufficient

B Statement 1 and 2 together are sufficient to solve

C Statement 1 alone is sufficient

D Statement 2 alone is sufficient

Answer: A

Explanation:

Both statements are not sufficient as we do not know the seating arrangement of K and N.

Option A is correct.

Question 39

Constantan is alloyed from ..... metals.

A Ni, Ti, Fe, Cr

B Cu, Ni, Mn

C Ni, Cr, Mn, Fe

D Cu, Ni

Answer: D

Question 40

If the present ages of a father and his son are 48 years and 28.8 years old respectively, then the father can say to his son, "I was ..... of your present age when you were born".

- A half
- B two-third
- C one-fifth
- D one-third

Answer: B

Explanation:

The present age of Father (f) = 48 and present age of son (s) = 28.8

The age of father at his sons birth is  $48 - 28.8 = 19.2$

Therefore the age of father was  $\frac{2}{3}$ rd of his son's age at the time of his sons birth

Hence, option B is the correct answer.

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Question 41

Fishes have a ..... chambered heart.

- A Single
- B Three
- C Four
- D Two

Answer: D

Question 42

When  $7^{21} + 7^{22} + 7^{23} + 7^{24}$  is divided by 25 the remainder is:

- A 5
- B 17
- C 7
- D 0

Answer: D

Explanation:

Given,  $7^{21} + 7^{22} + 7^{23} + 7^{24}$

$= 7^{21}(1 + 7 + 49 + 343)$

$= 7^{21}(400)$

Now, 400 is divisible by 25. The remainder will be 0

Hence, option D is the correct answer.

**Question 43**

**Weight of a body is maximum at the:**

- A Equator
- B Pole
- C Subtropics
- D Tropics

**Answer: B**

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**Question 44**

**Which of the following will yield a reclining decimal?**

- A  $\frac{24}{60}$
- B  $\frac{24}{30}$
- C  $\frac{24}{90}$
- D  $\frac{24}{120}$

**Answer: C**

**Question 45**

**As of 2018, who is the union minister of the Ministry of Women and Child Development(MWCD)?**

- A Renuka Chowdhury
- B Krishna Tirath
- C Smriti Irani
- D Maneka Gandhi

**Answer: D**

**Question 46**

**Find the Odd one out.**

A	B	C	D
5E	J9	T20	25Y

- A C
- B A



C B

D D

Answer: C

**Explanation:**

Here the number denotes the alphabetical position of the alphabet. J's numerical value is 10. So B is odd one out.

Option C is correct.

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**Question 47**

The increasing order of the refractive index of certain materials is (left to right) .....

A Rocksalt, Benzene, Kerosene, Ice

B Rock Salt, Ice, Benzene, Kerosene

C Ice, Kerosene, Benzene, Rock Salt

D Kerosene, Ice, Benzene, Rock Salt

Answer: C

**Question 48**

A parallelogram PQRS, the length of whose sides are 8 cm and 12 cm, has one diagonal 10 cm long. The length of the other diagonal is approximately:

A 17.8 cm

B 17.5 cm

C 17 cm

D 18 cm

Answer: A

**Explanation:**

$$\text{Area of parallelogram} = \frac{1}{2}(\text{diagonal1}) \times (\text{diagonal2})$$

It is also equal to product of its sides i.e.  $l \times b$

hence

$$\frac{1}{2} \times d1 \times d2 = l \times b$$

given  $d=10$

$l=8$

$b=12$

$$\frac{1}{2} \times 10 \times d2 = 8 \times 12 = 19.2$$

**Question 49**

Given is a statement followed by two arguments numbered I and II. Consider the statement and the arguments and decide which of the arguments is strong.

**Statement:**

Is the choice of junk food a better option to create interest in eating in children?

**Arguments:**

I. Yes, the best way to create interest is to give the food a child likes.

II. No. junk food is the reason behind obesity, heart diseases, diabetes and other health problems and it is important to induce healthy eating habits in children.

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

**Answer: A**

**Explanation:**

Junk food is the reason behind obesity, heart diseases, diabetes and other health problems and it is important to induce healthy eating habits in children. Junk food can rather make children addicted to it and it will let them to serious health issues. only argument 2 is strong.

Option A is correct.

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**Question 50**

Every month, Kritika spends 30% of her income on house rent and 60% of the rest on household expenditure. If she saves ₹ 6300 per month, what is her total monthly income?

- A ₹ 22,000
- B ₹ 20,500
- C ₹ 22,500
- D ₹ 25,000

**Answer: C**

**Explanation:**

Let the monthly income be  $x$

Kritika spends 30% of her income on house rent. The remaining amount will be 70% of  $x$

Kritika spends 60% of the rest (70% of 60% = 42% of  $x$ ) on household expenditure. The remaining amount will be 28% of  $x$

If 28% of  $x$  is 6300 then 100% will be 22,500

Hence, option C is the correct answer.

**Question 51**

In a code language, if LUCK is written as L2U1C3K1, then what is the last digit for the code for XEROX in that same language?

- A 4
- B 3
- C 2

D 1

Answer: A

**Question 52**

What is the term of office of the members of Rajya Sabha?

A 2 years

B 6 years

C 7 years

D 4 years

Answer: B

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**Question 53**

With whom did the Government of India sign a \$ 120 million loan agreement to complete double-tracking and electrification of railway tracks along high-density corridors to improve the operational efficiency of India's railway network?

A European Bank

B African Development Bank

C International Monetary Fund (IMF)

D Asian Development Bank

Answer: D

**Question 54**

Give an example of a salt which gives an aqueous solution of pH less than 7.

A Ammonium chloride

B Sodium carbonate

C Sodium bicarbonate

D Sodium chloride

Answer: A

**Question 55**

A person does some work of 1,000 J in 2 s. His power will be .....

A 1000W

B 25W

C 500W

D 50W

Answer: C

**Explanation:**

Power in Watts is equal to Energy in Joules divided by Time in Seconds

$$P(\text{watts}) = \frac{E(\text{joules})}{t(\text{seconds})}$$

$$P(w) = \frac{1000J}{2s} = 500Watts$$

Option C is correct.

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**Question 56**

If  $X + Y = 3$ ,  $XY = 2$ , find the value of  $X^3 - Y^3$

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

**Answer: A**

**Explanation:**

$$X + Y = 3, XY = 2,$$

$$(X + Y)^2 = 9$$

$$(X + Y)^2 = X^2 + 2XY + Y^2$$

$$X^2 + Y^2 = 9 - 4 = 5$$

$$(X - Y)^2 = X^2 - 2XY + Y^2$$

$$(X - Y) = 1$$

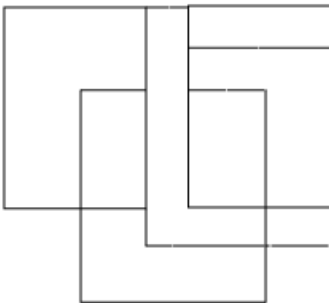
$$X^3 - Y^3 = (X - Y)(X^2 + Y^2 + XY)$$

$$= 1 \times (9 - 2) = 7$$

Option A is correct.

**Question 57**

How many closed rectangular boxes are there in the following figure?



- A 6
- B 5
- C 7
- D 8

Answer: D

Question 58

The atoms of Germanium, Arsenic, Selenium and Bromine contain ..... shells.

- A 3
- B 7
- C 5
- D 4

Answer: D

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Question 59

Name the country which will host the 2019 Combined World Cup for shooting?

- A Pakistan
- B Nepal
- C Sri Lanka
- D India

Answer: D

Question 60

The LCM and HCF of two numbers are 4284 and 32, respectively. If one of the numbers is 672, then the second number is;

- A 102
- B 64
- C 204
- D 92

Answer: C

**Explanation:**

HCF is 32

LCM is 4284

Let the other number be  $x$

We know that  $HCF \times LCM = \text{product of 2 numbers.}$

$$32 \times 4284 = 672 \times x$$

$$x = \frac{32 \times 4284}{672}$$

$$x = 204$$

Option C is correct.

Question 61

Read the statement below followed by two arguments.

**Statement:**

Should there be strict laws for maintaining ponds and lakes?

**Arguments:**

I. Yes, it will naturally maintain the water level for generations to come. It affects the migration of birds too.

II. No, it comes in the way of modern urban development and growth. Which argument(s) of the below is/are strong in the context of the statement?

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

**Answer:** A

**Explanation:**

Yes, it will naturally maintain the water level for generations to come. It affects the migration of birds too. So, laws should there be strict for maintaining ponds and lakes.

Option A is correct.

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Question 62

If  $a - \frac{1}{a} = 7$ , then  $a^2 + \frac{1}{a^2} = ?$

- A 54
- B 51
- C 53
- D 52

**Answer:** B

**Explanation:**

we know that:

$$(a - b)^2 = a^2 + b^2 - 2ab$$

and

$$(a + b)^2 = a^2 + b^2 + 2ab$$

here,

$$\left(a - \frac{1}{a}\right) = 7$$

Squaring on both side .....

$$\left(\frac{a-1}{a}\right)^2 = 7^2 = 49$$

now,

$$\left(\frac{a+1}{a}\right)^2 = \left(\frac{a-1}{a}\right)^2 + 4 \times a \times \frac{1}{a}$$

$$\left(\frac{a+1}{a}\right)^2 = 49 + 4$$

$$\left(\frac{a+1}{a}\right)^2 = 53$$

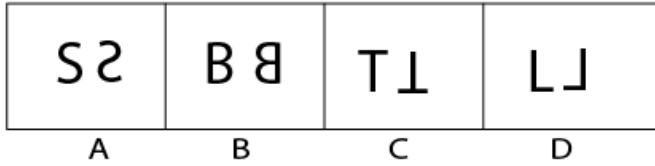
$$a^2 + \frac{1}{a^2} + 2a \frac{1}{a} = 53$$

$$a^2 + \frac{1}{a^2} = 53 - 2 = 51$$

Option B is correct.

#### Question 63

Find the odd one out.



A D

B B

C C

D A

Answer: C

#### Explanation:

Except C all others are lateral mirror image.

Option C is correct.

#### Question 64

Name the viceroy who inaugurated New Delhi as the new capital of India in the year 1931.

A Lord Wellesley

B Lord Curson

C Lord Cornwallis

D Lord Irwin

Answer: D

## RRB General Science Notes (Download Pdf)

#### Question 65

How many medals did India bag at the Jordan Junior and Cadet Open Table Tennis (TT) tournament in 2017 and ended as the second best finisher?

A 23

B 24

C 20

D 15

Answer: B

**Question 66**

..... received the Polly Umrigar Award, and is the first Indian cricketer to get it on three occasions.

- A Virat Kohli
- B Sachin Tendulkar
- C MS Dhoni
- D Ravi Shastri

**Answer: A**

**Question 67**

The cost of leveling a triangular piece of land whose sides are 72 m, 30 m and 78 in respectively at the rate of 20 paisa per square metre is:

- A ₹ 220
- B ₹ 200
- C ₹ 216
- D ₹ 210

**Answer: C**

**Explanation:**

Since  $78 = \sqrt{72^2 + 30^2}$

So it is a right angled triangle.

Area =  $\frac{1}{2} \times 72 \times 30 = 1080m^2$

Cost of leveling =  $₹0.2 \times 1080 = ₹216$

Option C is correct.

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**Question 68**

Read the given statements and the following conclusions carefully and select which of the conclusions logically follow(s) from the statements.

**Statements:**

- All blue are colours.
- All colours are shades.

**Conclusions:**

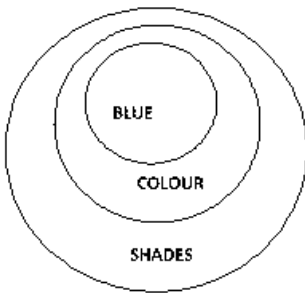
1. All blue are shades.
2. Some shades are colours.

- A All the conclusions follow.
- B Only conclusion 1 follows.
- C Only conclusion 2 follows.
- D No conclusions follow.

**Answer: A**

**Explanation:**





1. All blue are shades. True
2. Some shades are colours. True

Both conclusions follow

Option A is correct.

#### Question 69

Which of the following is not a characteristic of Pisces?

- A Exoskeleton of scales
- B Breathing through gills
- C Endoskeleton of bone/cartilage
- D Presence of pseudocoelom

Answer: D

#### Question 70

How much loan amount was sanctioned by The World Bank to help India develop its first modern waterway?

- A \$575 million
- B \$275 million
- C \$375 million
- D \$475 million

Answer: C

#### Explanation:

The Government of India and the World Bank today signed a \$375 million loan agreement to support India develop its first modern inland water transport fairway on the Ganga river between Varanasi and the seaport of Haldia.

Option C is correct.

## RRB GK Material (Download Pdf)

#### Question 71

"When a card placed over a tumbler is flicked with the finger, the coin placed over it falls in the tumbler".

- A Law of conservation of energy
- B Newton's third law of motion
- C Law of Inertia
- D Law of conservation of momentum

Answer: C

**Question 72**

The HCF of two numbers is 11 and their LCM is 330. If one of the number is 55. Find the other number.

- A 33
- B 66
- C 44
- D 77

Answer: B

**Explanation:**

Given H.C.F=11

L.C.M=330

Let the numbers be 55 and x

product of numbers=product of L.C.M and H.C.F

$$55 \times x = 11 \times 330$$

$$x = 66$$

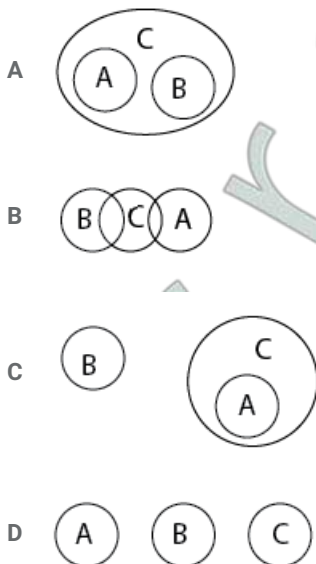
Therefore other number=66

Option B is correct.

**Question 73**

Which of the following correctly represents the relationship between

- A) Peak
- B) Clouds
- C) Mountain



Answer: C

**Explanation:**

- A) Peak
- B) Clouds
- C) Mountain

Mountain and peaks are same, and clouds are different.

Option C is correct.

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### Question 74

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

- All razors are blades.
- All blades are metals.

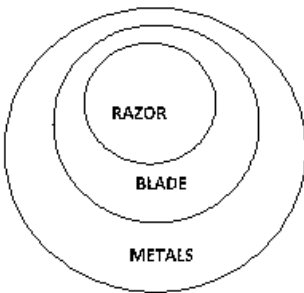
Conclusions:

1. All metals are razors.
2. Some metals are blades.

- A All the conclusions follow.  
B Neither conclusion follows.  
C Only conclusion 2 follows.  
D Only conclusion 1 follows.

Answer: C

Explanation:



1. All metals are razors. False
2. Some metals are blades. True

Option C is correct.

### Question 75

The  $CO_2$  emissions in million metric tons over 3 years are given in the following table.

Year	Domestic $CO_2$ emission
2015	100
2016	110
2017	150

What is the increase in the percentage of  $CO_2$  emission from year 2016 to 2017?

- A 36.36%  
B 26.36%  
C 63.63%

D 36.45%

Answer: A

Explanation:

The increase in the percentage of  $CO_2$  emission from year 2016 to 2017 =  $\frac{150-110}{110} \times 100$

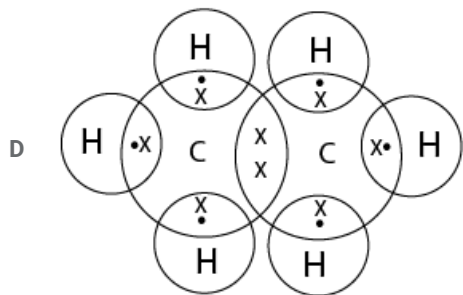
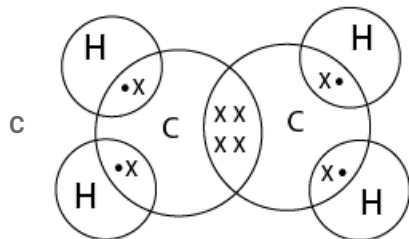
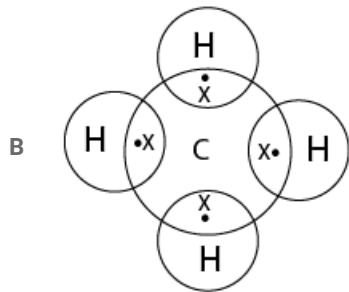
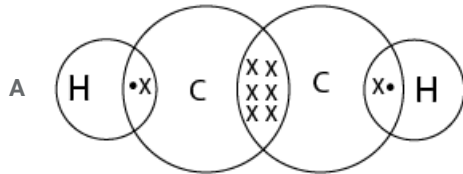
$$= \frac{40}{110} \times 100$$

$$= 36.36$$

Option A is correct.

Question 76

The electronic dot and cross structure of ethene is .....



Answer: C

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Question 77

The LCM of 16, 24, 36, 52 and 54 is?

A 5618

B 5216

C 432

D 5616

Answer: D

Question 78

Which of the following cannot be used for making lenses?

A Plastic

B Soil

C Glass

D Water

Answer: B

Question 79

Find the odd one out.

—	÷	+	M
A	B	C	D

A B

B A

C D

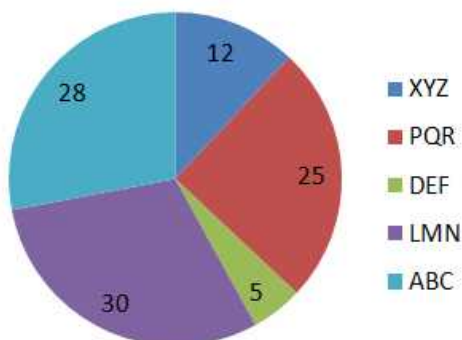
D C

Answer: C

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Question 80

The given pie chart shows information about the mobile phone manufacturing companies in India. The total number of mobile phone units manufactured is 12,40,000 units.



Which company produces the maximum number of mobile phones?

- A XYZ
- B PQR
- C ABC
- D LMN

Answer: D

**Question 81**

Which of the following Chief Ministers of India had been presented the 'Transformative Chief Minister Award' by the US-India Business Council (USIBC) in May 2017?

- A K.Chandrashekhar Rao
- B Nitish Kumar
- C N.Chandrababu Naidu
- D Yogi Adityanath

Answer: C

**Question 82**

What Principal will yield ₹ 120 as Simple Interest at 6% p.a. in 10 years?

- A ₹ 120
- B ₹ 180
- C ₹ 200
- D ₹ 210

Answer: C

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**Question 83**

Select the option figure that will complete the series of question figures.

**Question figures**

			?
--	--	--	---

**Option figures**

A	B	C	D

- A C
- B B
- C A
- D D

Answer: A

**Question 84**

The height and the slant height of a right circular cone are 24 cm and 25 cm, respectively. Considering  $\pi$  as  $\frac{22}{7}$ , find the curved surface area of the said cone.

- A  $550 \text{ cm}^2$
- B  $572 \text{ cm}^2$
- C  $528 \text{ cm}^2$
- D  $539 \text{ cm}^2$

Answer: A

**Question 85**

Which movie won the national award for Best Film on social issues at the 64th National Film Awards. 2017?

- A Dangal
- B Pink
- C Sultan
- D Airlift

Answer: B

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**Question 86**

Which of the following does NOT belong to this group?

- A. Fox
- B. Goat
- C. Horse
- D. Zebra

- A C
- B A
- C D
- D B

Answer: B

Question 87

Find the next in this series:

YC3, XF6, WI9, .....

- A UL12
- B VL12
- C VM12
- D UM12

Answer: B

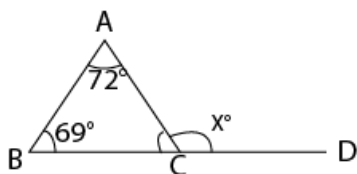
Question 88

Read the given question and decide which of the following information is sufficient to answer the question.

What is the value of  $\angle ACD$ ?

Information:

1)

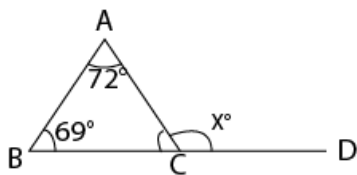


2)  $\angle ACB = 180 - x^\circ$

- A Only 1 is sufficient.
- B Neither 1 nor 2 is sufficient.
- C Either 1 or 2 is sufficient.
- D Only 2 is sufficient.

Answer: A

Explanation:



Using the information 1, we can see that

$x =$  Sum of the opposite interior angle

$$x = 72^\circ + 69^\circ = 141^\circ$$

So only 1 is sufficient to answer

Option A is correct.

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Question 89

Which pattern will the given transparent sheet resemble when it is folded at the dotted line?



A	B	C	D

A C

B B

C A

D D

Answer: A

Explanation:



If the paper is folded along the dot, the 0 on the left side goes to the right side as shown above.

Option C is correct.

Question 90

Which movie has won 'the best picture award' in the 90<sup>th</sup> Oscar awards?

A Phantom thread

B Three Billboards

C The Shape of water

D Coco

Answer: C

Question 91

The force that a neutron exerts on a proton inside an atom is:

A Tidal force

B Gravitational force

C Electrostatic force

D Nuclear force

Answer: D

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### Question 92

A water tank is filled in 5 hours by three pipes X, Y and Z the pipe Z is thrice as fast as Y and Y is twice as fast as X. How much time will pipe X alone take to fill the water tank?

- A 60 hrs
- B 45 hrs
- C 40 hrs
- D 35 hrs

**Answer: B**

### Explanation:

A water tank is filled in 5 hours by three pipes X, Y and Z the pipe Z is thrice as fast as Y and Y is twice as fast as X.

$$\frac{Z}{Y} = \frac{3}{1} \text{ and } \frac{Y}{X} = \frac{2}{1}$$

Now equate both the ratios by making Y equal in both,

$$\frac{Z}{Y} = \frac{6}{2} \text{ and } \frac{Y}{X} = \frac{2}{1}$$

So, Z : Y : X = 6 : 2 : 1 (this is the ratio of efficiencies of the pipes)

If three pipes fill the tank in 5 hours, there fore the total work done is

$$= \text{Time} \times \text{Total Efficiency of pipes}$$

$$= 5 \times (6 + 2 + 1) = 45$$

So X will take time =  $\frac{\text{Work}}{X's \text{ efficiency}}$

$$= \frac{45}{1} = 45 \text{ hours}$$

Option B is correct.

### Question 93

Where are the Garo Hills located?

- A Assam
- B Nagaland
- C Meghalaya
- D Mizoram

**Answer: C**

### Question 94

Who approved 20 lakh houses for urban poor under the PM Awas Yojna recently?

- A Smriti Irani
- B Arun Jaitley
- C Sushnia Swaraj
- D Shri Venkaiah Naidu

Answer: D

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### Question 95

Who among the following is the first woman lawyer to be directly appointed as a judge of the Supreme Court?

- A Vrinda Grover
- B Menaka Guniswamy
- C Meenakshi Arora
- D Indu Malhotra

Answer: D

### Question 96

If the current flowing through a circuit is 0.6 A for 6 mins, the amount of electric charge flowing through it is .....

- A 360 C
- B 216 C
- C 60 C
- D 36 C

Answer: B

### Explanation:

If the current flowing through a circuit is 0.6 A for 6 mins =  $6 \times 60 \text{sec} = 360 \text{sec}$

$$\text{Current} = \frac{\text{Charge}}{\text{Time}}$$

$$\text{Charge} = \text{Current} \times \text{Time}$$

$$= 0.6 \times 360 = 216 \text{C}$$

The amount of electric charge flowing through it is 216 C

Option B is correct.

### Question 97

Find the missing number in the following series.

27, 29, 33, ?, 57

- A 30
- B 41
- C 40
- D 35

Answer: B

### Explanation:

$$27 + 2^1 = 29$$

$$29 + 2^2 = 33$$

$$33 + 2^3 = 41$$

$$41 + 2^4 = 57$$

Option B is correct.

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### Question 98

I gain 19% if I sell an article for ₹ 595. What would be my gain or loss percentage if I sell it for ₹ 475?

- A Gain 5%
- B Loss 5%
- C Loss 10%
- D Gain 10%

**Answer: B**

### Explanation:

I gain 19% if I sell an article for ₹ 595.

$$\begin{aligned} \text{Cost price} &= \frac{\text{Selling price}}{\text{Profit}\%} \\ &= \frac{595}{1.19} = ₹500 \end{aligned}$$

If it was sold for ₹475, Loss % will be

$$= \frac{475}{500} \times 100 = 5\%$$

### Question 99

Given is a statement followed by two assumptions numbered I and II. Consider the statement and the following assumptions and decide which of the assumptions is/are implicit in the statement.

#### Statement:

All the species of plants and animals are part of biodiversity and ecosystems and play major role in the overall health of the environment.

#### Assumptions:

- I. Preserve or create a backyard habitat. Save as many native plants as you can when building or landscaping.
- II. One of the major goals of sustainability is to preserve biodiversity. All life on Earth is connected through the flow of energy (planetary food web), and each time a species becomes endangered or lost to extinction, one more part of that energy flow is lost.

- A Neither assumption I nor II is implicit.
- B Both assumptions I and II are implicit.
- C Only assumption I is implicit.
- D Only assumption II is implicit.

**Answer: D**

### Question 100

Walking at a speed of 10 km/hr, Madhu reaches her university 15 minutes late. Next time she increases her speed by 2 km/hr, but she is still late by 5 minutes. The distance of the university from her house is:

- A 15 km
- B 30 km

C 20 km

D 10 km

Answer: D

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