



## RRB Group-D 29th oct 2018-shift -2

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## RRB Group-D 29th oct 2018-shift -2

### Instructions

For the following questions answer them individually

### Question 1

The density of silver is  $10.8 \times 10^3 \text{kgm}^{-3}$  and the density of water is  $10^3 \text{kgm}^{-3}$ . What is the relative density of Ag?

- A 0.108
- B 1.08
- C 108
- D 10.8

Answer: D

### Explanation:

The density of silver is  $10.8 \times 10^3 \text{kgm}^{-3}$  and the density of water is  $10^3 \text{kgm}^{-3}$ .

In this case,

$$\text{Relative density} = \frac{\text{Density of silver}}{\text{Density of water}}$$

$$\text{Relative density} = \frac{10.8 \times 10^3 \text{kgm}^{-3}}{10^3 \text{kgm}^{-3}}$$

$$= 10.8$$

Option D is correct.

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### Question 2

Srinivas works and earns ₹ 14,500 per month, out of which he saves only 20% and spends the remaining amount on other deeds. Find the amount spent

- A ₹ 11,500
- B ₹ 11,400
- C ₹ 11,000
- D ₹ 11,600

Answer: D

### Explanation:

Srinivas works and earns ₹ 14,500 per month, out of which he saves only 20% and spends the remaining amount on other deeds.

We know,

$$\text{Income} = \text{Expenditure} + \text{Savings}$$

$$14500 = \text{Exp} + 0.2 \times 14500$$

$$14500 = \text{Exp} + 2900$$

$$\text{Exp} = 11600$$

Option D is correct.

### Question 3

Select the term that relates to the third term in the same way as the second term relates to the first term.

Blogger : Writer :: Illustrator : .....

- A Artist
- B Singer
- C Doctor
- D Cook

**Answer: A**

**Explanation:**

Blogger : Writer :: Illustrator : Artist

As a blogger and writer are same as they write, similarly illustrator and artist are same as they draw and design.

Option A is correct.

**Question 4**

The length and breadth of a rectangular field is in the of ratio 3:2. If the area of the field is  $1,350m^2$ , then the cost of fencing it at ₹30/m will be:

- A ₹ 5,680
- B ₹ 4,500
- C ₹ 4,000
- D ₹ 5,240

**Answer: B**

**Explanation:**

The length and breadth of a rectangular field is in the of ratio 3:2. So length and breadth are  $3x$  and  $2x$

$$Area = length \times breadth$$

$$1350 = 3x \times 2x$$

$$225 = x^2$$

$$x = 15$$

length and breadth are 45m and 30 m resp.

$$\text{So cost of fencing} = 2(\text{length} + \text{breadth}) \times \text{cost of fencing}$$

$$= 2(45 + 30) \times 30$$

$$= ₹4500$$

Option B is correct.

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**Question 5**

Write four more rational numbers in the following pattern  $-\frac{1}{6}, -\frac{2}{12}, -\frac{3}{18}, -\frac{4}{24}, \dots$

**A**  $\frac{5}{6}, \frac{7}{8}, \frac{9}{10}, \frac{11}{12}$

**B**  $\frac{5}{30}, \frac{6}{36}, \frac{7}{42}, \frac{8}{48}$

**C**  $-\frac{5}{6}, -\frac{6}{12}, -\frac{7}{18}, -\frac{8}{24}$

D  $-\frac{5}{30}, -\frac{6}{36}, -\frac{7}{42}, -\frac{8}{48}$

Answer: D

Explanation:

$-\frac{1}{6}, -\frac{2}{12}, -\frac{3}{18}, -\frac{4}{24}, -\frac{5}{30}, -\frac{6}{36}, -\frac{7}{42}, -\frac{8}{48}$

Numerator are consecutive natural numbers and denominators are multiples of 6.

Option D is correct.

**Question 6**

Who was the author of the trilogy "The Immortals of Meluha", "The Secret of the Nagas", and "The Oath of the Vayuputras"?

- A Amish Tripathi
- B Anand Neelakantan
- C Kavita Kane
- D Devdutt Pattanaik

Answer: A

**Question 7**

..... is the first state of India to receive rainfall.

- A Kerala
- B Goa
- C Maharashtra
- D Gujarat

Answer: A

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**Question 8**

Express in meters the sum of 0.5035 km, 332.9 cm and 1771mm:

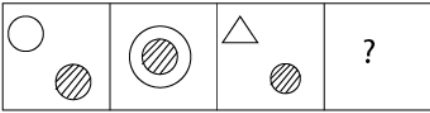
- A 500
- B 510
- C 508.6
- D 58.6

Answer: C

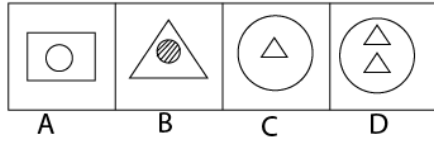
Question 9

Find the next figure for the given series:

Problem Figures:



Answer Figures:



A C

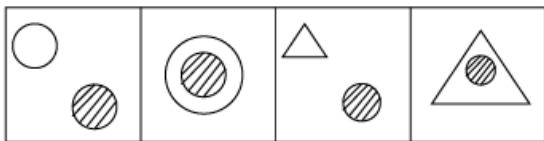
B A

C B

D D

Answer: C

Explanation:



Here in 2nd and 4th image the shaded portion is inscribed inside the unshaded circle/ triangle.

Option C is correct.

Question 10

$3.8$   
 $1.25$ , written as a pure decimal, will be

A 3.14

B 3.04

C 3.06

D 3.08

Answer: B

Explanation:

$3.8$   
 $1.25$

$= 3.04$

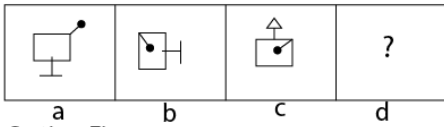
Option B is correct.

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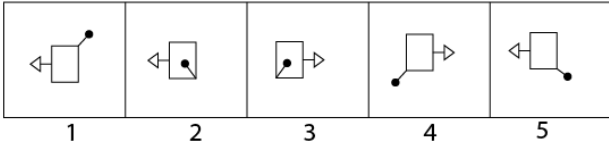
Question 11

From the option figures, select the one that is related to question figure c in the same way as question figure b is related to question figure a.

Question Figures:



Option Figures:



A 5

B 1

C 3

D 4

Answer: E

Question 12

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

Child labour is a punishable crime

Conclusions:

- I. Poverty of parents and their inability to send their children to school is the reason behind child labour
- II. Government has issued a ban on child labour

A Only conclusion II follows

B Only conclusion I follows

C Both the conclusions follow

D No conclusion follows

Answer: A

Explanation:

Government has issued a ban on child labour as child labour is an heinous crime so now child labour is a punishable crime.

So conclusion 2 follows the statement.

Option A is correct.

Question 13

Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).  
Is China spending on defense is justified?

Argument:

- 1. Yes, safety of the country is top priority
- 2. No, as peace in region is established hence money should be spend on development.

A Only argument 1 is strong

- B Neither argument 1 nor 2 is strong
- C Only argument 2 is strong
- D Both argument 1 and 2 is strong

**Answer: A**

**Explanation:**

Any country will like to spend as much as they can for the safety and safeguard of the country. So china is doing the same. Therefore argument 1 is strong.

Option A is correct.

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**Question 14**

**Which of these is the biggest tax reform made in India since independence?**

- A Goods and Services Tax
- B Excise duty
- C Customs duty
- D Land revenue

**Answer: A**

**Question 15**

**How much work is done in moving a charge of 4 C across two points having a potential difference of 12 V?**

- A 48 J
- B 3 J
- C 40 J
- D 12 J

**Answer: A**

**Explanation:**

We know that,

$$W = q \times V$$

Where q is charge , W is the work done and V is the potential difference .

As given work is done in moving a charge of 4 coulomb across two points having a potential difference of 12 volt.

$$q = 4 \text{ Coulomb}$$

$$V = 12 \text{ Volt}$$

Put all the values in the formula

$$W = 4 \times 12$$

$$W = 48 \text{ J}$$

Option A is correct.

**Question 16**

**The chemical formula of Ammonium phosphate is .....**

A  $(NH_4)_3PO_4$

B  $(NH_4)_2PO_4$

C  $(NH_4)_2P_0_2$

D  $NH_4PO_4$

Answer: A

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Question 17

The carpel contains .....

A Pollen grains

B Sepals

C Petals

D Ovules

Answer: D

Question 18

Xylem is a/an ..... tissue.

A simple permanent

B complex permanent

C epithelial

D connective

Answer: B

Question 19

What is the straight tube, about 40 cm long, that carries sperms to the seminal vesicles, called?

A Urethra

B Penis

C Vas deferens

D Scrotum

Answer: C

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Question 20

The pressure variations inside the inner ear are turned into electrical signals by the:



- A Cochlea
- B Hammer
- C Stirrup
- D Anvil

Answer: A

**Question 21**

A flight covering a distance of 1200 km could reduce the travel time by 30 minutes, due to an additive tailwind that increases the average speed by 120 km/hr. What was the duration of the flight in hours?

- A 2.2 hours
- B 1.9 hours
- C 1.8 hours
- D 2 hours

Answer: D

**Question 22**

A clock shows 2 am now Find the total rotation of the minute hand, in degrees, of the clock when it will show 9 pm on the same night?

- A 8600°
- B 6840°
- C 6470°
- D 5930°

Answer: B

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**Question 23**

Simplify the following expression:

$$\left(\frac{3}{11} \times \frac{33}{6}\right) - \left(\frac{9}{4} \times \frac{12}{3}\right) + \left(\frac{5}{11} \times \frac{22}{10}\right)$$

- A  $-\frac{9}{2}$
- B  $-\frac{13}{2}$
- C  $\frac{13}{2}$
- D  $\frac{9}{2}$

Answer: B

**Explanation:**

$$\left(\frac{3}{11} \times \frac{33}{6}\right) - \left(\frac{9}{4} \times \frac{12}{3}\right) + \left(\frac{5}{11} \times \frac{22}{10}\right)$$

$$= \left(\frac{3}{2}\right) - 9 + 1$$

$$\begin{aligned} &= \binom{3}{2} - 8 \\ &= \binom{3-16}{2} \\ &= \frac{-13}{2} \end{aligned}$$

Option B is correct.

#### Question 24

What is the total earning after 2 years from ₹ 18,750 on variable compound interest if the rate of interest for the first 4 year is 4% and for the second, it is 8%?

- A ₹ 1,740
- B ₹ 1,760
- C ₹ 1,670
- D ₹ 2,310

Answer: D

**Explanation:**

P=18750

1st year = 4%

2nd year = 8%

$$\text{Interest for 1st year} = \frac{18750 \times 4 \times 1}{100} = 750$$

$$\text{Principal after 1st year} = 18750 + 750 = 19500$$

$$\text{Interest for 2nd year} = \frac{19500 \times 8 \times 1}{100} = 1560$$

$$\text{Total interest} = 750 + 1560 = 2310$$

Option D is correct.

#### Question 25

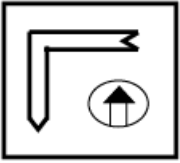
..... is a purple-coloured solid halogen.

- A Bromine
- B Fluorine
- C Chlorine
- D Iodine

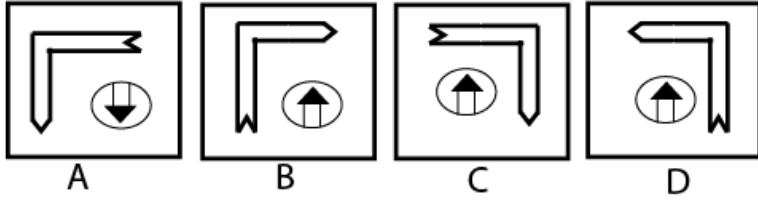
Answer: D

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Question 26



The mirror image of the above figure is

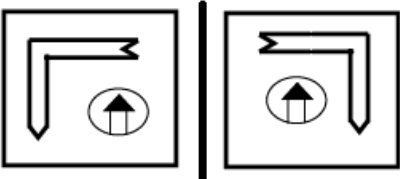


- A C
- B D
- C B
- D A

Answer: A

Explanation:

C is the lateral mirror image of the given figure if the mirror is placed to the right side of the figure.



Option A is correct.

Question 27

Find the energy possessed by an object of mass 10 kg when it is at a height of 8 m above the ground. Given  $g=9.8 \text{ ms}^{-2}$

- A 784 J
- B 588 J
- C 520 J
- D 528 J

Answer: A

Explanation:

Mass 10 kg

$g=9.8 \text{ ms}^{-2}$

Height = 8 m

the energy possessed by an object =  $mgh$

$$= 10 \times 8 \times 9.8 = 784J$$

Option A is correct.

**Question 28**

Find the LCM of 96, 144 and 150.

- A 1440
- B 3600
- C 7200
- D 2400

**Answer:** C

**Explanation:**

LCM of 96, 144 and 150 = 7200

Option C is correct.

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**Question 29**

Which child artist won the 'Best Child Artist' award for the film 'Noor Islam' at the 64<sup>th</sup> National Film Awards 2017?

- A Munni
- B Matin Ray
- C Saj
- D Teena

**Answer:** C

**Question 30**

Simplify the following expression:

$$\left(\frac{3}{2} \times \frac{1}{6}\right) + \left(\frac{5}{3} \times \frac{7}{2}\right) - \left(\frac{13}{4} \times \frac{4}{3}\right) = ?$$

- A  $\frac{12}{21}$
- B  $\frac{21}{12}$
- C  $\frac{36}{21}$
- D  $\frac{41}{12}$

**Answer:** B

**Explanation:**

$$\left(\frac{3}{2} \times \frac{1}{6}\right) + \left(\frac{5}{3} \times \frac{7}{2}\right) - \left(\frac{13}{4} \times \frac{4}{3}\right)$$

$$\left(\frac{1}{4}\right) + \left(\frac{35}{6}\right) - \left(\frac{13}{3}\right)$$

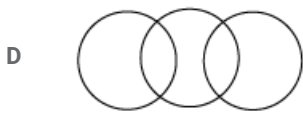
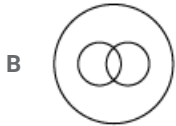
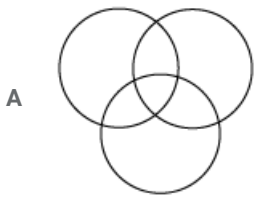
$$\left(\frac{3+70-52}{12}\right)$$

$$\frac{21}{12}$$

Option B is correct.

Question 31

Choose the best suitable Venn diagram for the following words:  
"Amphibians, Alligator, Tortoise"



Answer: C

**Explanation:**

"Amphibians, Alligator, Tortoise"

Amphibians are the living creatures who can live both in water and land. Tortoise and Alligators have nothing in common except both being amphibians.

Option C is correct.

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Question 32

The sum of the present ages of two persons is seven times that of the difference between their ages. After 5 years, the sum of their ages will become nine times that of the difference. What is the present age of the elder person?

A 24 years

B 28 years

C 14 years

D 20 years

Answer: D

**Explanation:**

Sum of their present ages is 7 times the difference.

Sum of their ages after 5 years is 9 times the difference.

Therefore, 2 times difference = 10 (Subtracting the ages of 5 years later from present age)

or, difference of their ages = 5

Sum of their ages at present =  $7 \times 5 = 35$

Since there is only 5 years difference between them, present age of the elder person

$$= 5 + \frac{35-5}{2} = 20$$

Option D is correct.

### Question 33

What is the upward force exerted by the water on the bottle containing it called?

- A Tension
- B Buoyant Force
- C Thrust
- D Pressure

Answer: B

### Question 34

What happens to the volume (V) of the cuboid. if its length is doubled. height is doubled and breadth is kept the same?

- A V
- B V/2
- C 4V
- D 2V

Answer: C

### Explanation:

Let length, breadth and height be L, B and H resp.

Let original Volume be  $V = L \times B \times H = LBH$

New Volume =  $V1 = 2L \times B \times 2H = 4LBH = 4V$

$$\frac{\text{NewVolume}}{\text{originalVolume}} = \frac{4LBH}{LBH}$$

$$V1 = 4V$$

Option C is correct.

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### Question 35

Who among the following was elected as President of the Sahitya Akademi in 2018?

- A Chandrashekar Kambar
- B U.R. Ananthamurthy
- C Pratibha Ray
- D Vinayak Krishna Gokak

Answer: A

### Question 36

After India's 29<sup>th</sup> state, Telangana. was created, which of the following parties formed the first government in the state?

- A Telangana Rashtra Samithi (TRS)
- B Telangana Rajya Samithi (TRS)
- C Telangana Loka Samithi (TLS)
- D Telangana Maha Samithi (TMS)

Answer: A

#### Question 37

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

Question:

8 trolleys in a supermarket are used to load and unload commodities. All of the trolleys have been filled with oil cans of two different sizes and shapes. How many cans are loaded in the trolleys in total?

Statements:

1. The shape of 8 cans are such that in one trolley only 2 can fit.
2. The rest of the trolleys are filled with 4 oil cans each.

- A Statement 1 alone is sufficient
- B Neither statement 1 nor 2 is sufficient
- C Statement 1 and 2 together are sufficient
- D Statement 2 alone is sufficient

Answer: C

Explanation:

Both statements present us with the sizes of oil cans separately, so both statements are needed.

Option C is correct.

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#### Question 38

A solution contains 42 g of common salt in 320 g of water. Calculate the concentration in terms of mass by mass percentage of the solution?

- A 11.6 g
- B 12.6%
- C 11.6%
- D 10.36%

Answer: C

Explanation:

Mass of solute - NaCl = 42gm

Mass of solvent - water = 320 gm

Mass of solution = (42 + 320) gm = 362gm

Concentration in terms of Mass by mass percentage =  $\frac{\text{mass of solute}}{\text{mass of solution}} \times 100$

$$= \frac{42}{362} \times 100 = 11.60\%$$

Option C is correct.

**Question 39**

The general formula of alkynes is:

- A  $C_nH_{3n-3}$
- B  $C_nH_{2n-2}$
- C  $C_nH_{2n+2}$
- D  $C_nH_{2n}$

Answer: B

**Question 40**

220 g of carbon dioxide contains ..... moles.

- A 5
- B 6
- C 3
- D 4

Answer: A

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**Question 41**

A boy has 120 balls of which some are white and the remaining are black. If the percentage of white balls is 45%, find the number of black balls he has.

- A 56
- B 66
- C 64
- D 54

Answer: B

**Explanation:**

A boy has 120 balls of which some are white and the remaining are black.

Percentage of white balls is 45%.

$$\text{Total white balls} = 0.45 \times 120 = 54$$

$$\text{Total black balls} = 120 - 54 = 66$$

Option B is correct.

**Question 42**

Prasid and Deep separately can do a certain work in 32 and 24 days respectively. They decided to do the work together and Niloy also joined them. If all of them together can complete the same work in 8 days, then how long does Niloy take to do the work alone?



A  $\frac{92}{5}$  days

B  $\frac{96}{5}$  days

C  $\frac{94}{5}$  days

D  $\frac{89}{5}$  days

**Answer: B**

**Explanation:**

Prasid and Deep separately can do a certain work in 32 and 24 days respectively.

They decided to do the work together and Niloy also joined them. Let Niloy does the same work in x days

If all of them together can complete the same work in 8 days,

According to question,

$$\frac{1}{32} + \frac{1}{24} + \frac{1}{x} = \frac{1}{8}$$

$$\frac{3x+4x+96}{96x} = \frac{1}{8}$$

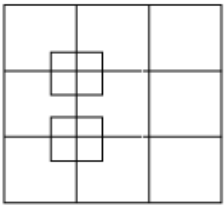
$$5x = 96$$

$$x = \frac{96}{5}$$

Option B is correct.

**Question 43**

**Find the number of squares in the figure:**



A 27

B 25

C 24

D 26

**Answer: C**

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**Question 44**

**A body is falling from a height of 200 m. After it has fallen 100 m, the body will possess:**

A less kinetic energy and more potential energy.

B Zero potential energy and half Kinetic energy

C more kinetic energy and less potential energy.

D half potential energy and half kinetic energy.

Answer: D

Question 45

The plant hormone that helps in the growth of the stem is .....

A Gibberellins

B Cytokinins

C Auxins

D Insulin

Answer: C

Question 46

The elements belonging to groups ..... are known as 'd' block elements.

A 3 to 12

B 1 and 2

C 13 to 18

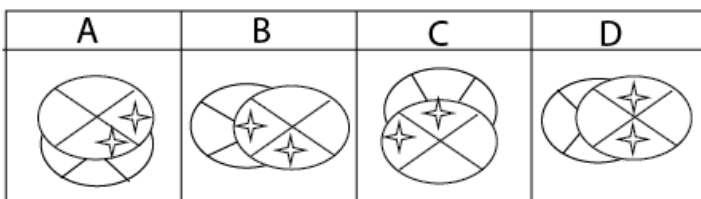
D 3 to 10

Answer: A

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Question 47

Find the odd one out?



A A

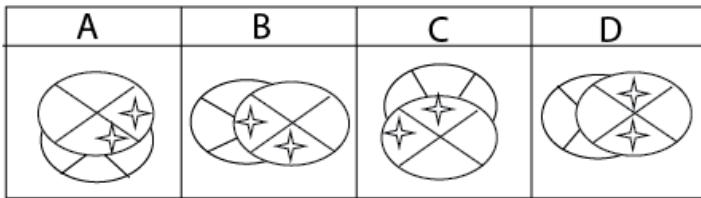
B B

C D

D C

Answer: C

Explanation:



Here the star symbol is rotated in clockwise direction in A, B, C but in D the stars are opposite.

Option C is correct.

#### Question 48

The usual average speed of a car on a particular stretch of road is 75 km/hr. On a particular day, the average speed was 12% less than the usual, as a result of which the time taken was 15 minutes more. How long is the stretch of road, in kilometres?

- A 155
- B 176
- C 165
- D 150

Answer: C

#### Question 49

Each question given below consists of a statement, followed by two arguments numbered I and II. You have to decide which of the arguments is a 'strong' argument.

Statement:

Should there be a dress code for college students?

Arguments:

I. Yes, a dress code will bring unity and eliminate discrimination.

II. No, dress code takes away the opportunity to showcase students' style sense.

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

Answer: C

Explanation:

Arguments should never have any negative statements, so argument 2 is eliminated. Yes, a dress code brings unity and eliminate discrimination as all of them wear the same pair of dresses.

Option C is correct.

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Question 50

The number of books sold by a seller over a year is as follows. In which months did he sell more than the average number of books sold that year?

Months	Number of books sold
January	2,000
February	1,500
March	2,500
April	3,000
May	2,000
June	1,000
July	1,500
August	2,000
September	5,000
October	2,000
November	150
December	6,000

- A September
- B June and March
- C January, May and December
- D September and December

Answer: E

Question 51

Four options have been given below of which three are alike in some way and 1 one is different. Choose the odd one out.

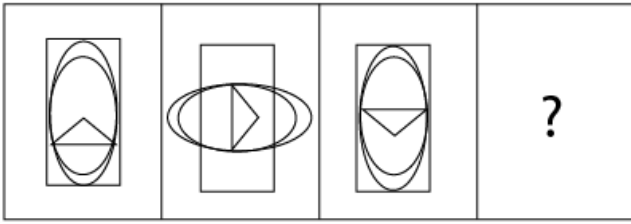
- A IISC Bengaluru
- B Kotak Mahindra bank
- C IIT Hyderabad
- D NIT Calicut

Answer: B

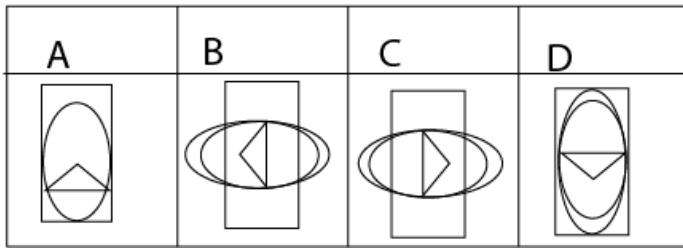
Question 52

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

Question Figures:



Option Figures:



A D

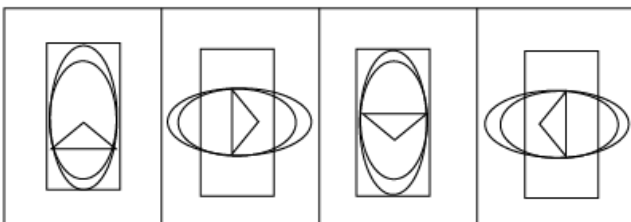
B A

C B

D C

Answer: C

Explanation:



here the oval shaped symbol rotates by 90 degrees and the triangle inside rotates 90 degrees in clockwise direction.

Option C is correct.

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Question 53

Avant points at a picture and say "She is the second daughter of my father's elder brother". Avant and the girl in the photograph are .....

A brothers

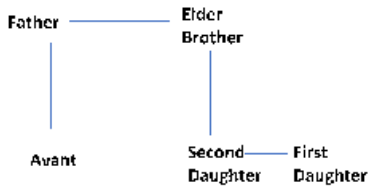
B friends

C siblings

D cousins

Answer: D

Explanation:



Option D is correct.

Question 54

"Bharatiya Jnanpith" is an organization related to which of the following?

- A General knowledge
- B Architecture
- C Science
- D Literature

Answer: D

Question 55

Identify the A quiet maritime strategic diplomacy has emerged as the key theme of this year's Union Budget 2018-19?

- A Big investment in island nations
- B Moderate investment in coastline infrastructure
- C Big investment in coastline guard and patrol
- D Moderate investment in Hitech Vessels

Answer: A

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Question 56

Find the next letter in the series:  
OV, QU, ST, US, .....?

- A OM
- B RH
- C WE
- D WR

Answer: D

Explanation:

OV, QU, ST, US, WR

The first alphabet follows +2 and 2nd alphabet follows -1

O+2= Q ; V-1= U

Q+2= S ; U-1= T

S+2= U ; T-1= S

U+2= W ; S-1= R

Option D is correct.

#### Question 57

Complete the following.

1 kwh = .....?

A  $36 \times 10^{-6} J$

B  $3.6 \times 10^{-6} J$

C  $3.6 \times 10^6 J$

D  $36 \times 10^6 J$

Answer: C

Explanation:

$$1kwh = 1kW \times 3600$$

$$= 1000W \times 3600$$

$$= 3.6 \times 10^6 J$$

Option C is correct

#### Question 58

Which Indian cricketer has inaugurated his global cricket academy at UAE recently?

A Sachin Tendulkar

B MS Dhoni

C Rahul Dravid

D Virat Kohli

Answer: B

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#### Question 59

Read the given statement and choose which argument is strong.

Statement:

Should the Indian government stop spending huge amounts of money on organising Commonwealth Games in the country?

Argument:

1. Yes, the money can be used for the development of poor people.

2. No, sports plays a significant role in exposing talent and helping athletes gain international exposure.

A Only argument 2 is strong

B Either argument 1 or 2 is strong

C Only argument 1 is strong

D Neither argument 1 nor 2 is strong

Answer: A

Explanation:

Sports plays a significant role in exposing talent and helping athletes gain international exposure, so Indian government stop spending huge amounts of money on organising Commonwealth Games in the country.

Option A is correct.

Question 60

How many natural numbers less than 500, when divided by 35 and 49, will leave a remainder of 30 in each case?

A 4

B 3

C 1

D 2

Answer: C

Explanation:

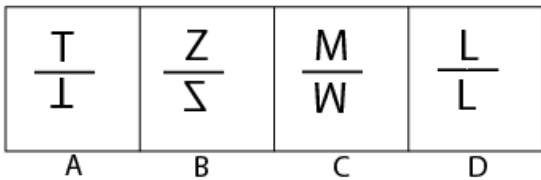
LCM of 35 and 49 =  $7 \times 7 \times 5 = 245$

Therefore a number less than 500, that when divided by 35 and 49, will leave a remainder of 30 in each case is  $245 + 35 = 275$

Option C is correct.

Question 61

Find the odd one out of the given figures.



A D

B C

C B

D A

Answer: A

Explanation:

All others except D are lateral mirror images.

Option A is correct.

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Question 62

The product of mass and velocity is called:

A Potential energy



- B Momentum
- C Force
- D Kinetic energy

**Answer: B**

**Question 63**

Varun is playing caroms with Samarth sitting in standard caroms seating arrangement. If Varun is facing South-West direction. What is the direction of his opponent Samarth?

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

**Answer: C**

**Explanation:**

Varun is playing caroms with Samarth sitting in standard caroms seating arrangement. If Varun is facing South-West direction, Samarth will be in opposite direction, so he will be facing the North East direction.

Option C is correct.

**Question 64**

The Sangam period is considered as the Golden Era of Tamil language as many classical Tamil ..... were written during this period

- A novels
- B prose
- C poems
- D epics

**Answer: C**

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**Question 65**

'Wings India 2018' is a mega show in the Civil Aviation and Aerospace area that showcases airlines, aircrafts and 5 infrastructure. Which Indian city hosted this event in 2018?

- A Bhubaneswar
- B Hyderabad
- C Bengaluru
- D Chennai

**Answer: B**

**Question 66**

If + means  $\times$ ,  $\times$  means  $-$ ,  $\div$  means  $+$  and  $-$  means  $\div$ , then what is the value of  $62 - 2 \div 8 + 15 \times 4 + 6$ ?

- A 130
- B 127
- C 120
- D 128

**Answer: B**

**Explanation:**

$$62 - 2 \div 8 + 15 \times 4 + 6$$

If + means  $\times$ ,  $\times$  means  $-$ ,  $\div$  means  $+$  and  $-$  means  $\div$ ,

$$62 \div 2 + 8 \times 15 - 4 \times 6$$

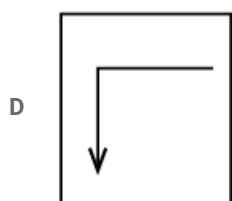
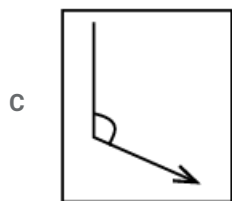
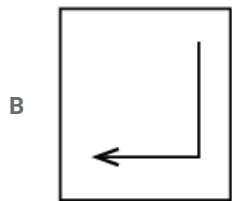
$$31 + 120 - 24$$

$$127$$

Option B is correct.

**Question 67**

**Find the ODD one out:**



**Answer: C**

**Explanation:**

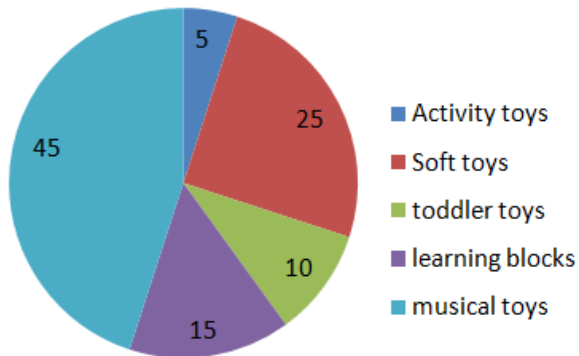
Except C all others are  $90^\circ$

Option C is correct.

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### Question 68

The following pie chart shows information on the sales of a toy making company "XYZ" during 2017-18 financial year.



The total revenue from the sale of all types of toys is ₹ 38,72,000/-  
What is the sales revenue earned on "Soft toys" by the company XYZ?

- A 9,68,000
- B 3,87,200
- C 7,74,400
- D 1,93,600

Answer: A

#### Explanation:

The total revenue from the sale of all types of toys is ₹ 38,72,000/-

%age Sales of soft toy in a toy making company "XYZ" =25%

Sales revenue earned on "Soft toys" by the company XYZ =  $0.25 \times 38,72,000 = 9,68,000$

Option A is correct.

### Question 69

In a triangle  $\angle C = 90^\circ$  and  $\angle A = 60^\circ$  then  $\text{Sin}A/2 + \text{Cos}A = ?$

- A  $3/2$
- B 1
- C 2
- D  $1/2$

Answer: B

#### Explanation:

In a triangle  $\angle C = 90^\circ$  and  $\angle A = 60^\circ$

$\text{Sin}A/2 + \text{Cos}A$

$= \text{Sin}60/2 + \text{Cos}60$

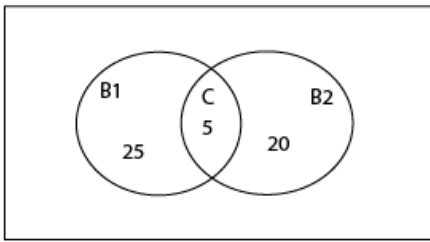
$= \frac{1}{2} + \frac{1}{2}$

$= 1$

Option B is correct.

Question 70

The following diagram represents the survey results on two brands of chips conducted on a sample size of 50 customers. Based on the figure, how many liked none of the two brands of chips?



- A 20
- B 0
- C 5
- D 25

Answer: E

Explanation:

Let A be B1 brand and B2 be B brand.

$$A \cup B = A + B + A \cap B$$

$$A \cap B = A + B - A \cup B$$

$$= 25 + 20 - 5 = 40$$

So number of people who dont like any of the brands =  $50 - 40 = 10$

Option E is correct.

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Question 71

What is the new Reverse Repo rate announced by the Reserve Bank of India (RBI) as on 1<sup>st</sup> August 2018?

- A 5.75
- B 6.75
- C 6.5
- D 6.25

Answer: D

Question 72

If A is greater than  $0^\circ$  and less than equal to  $90^\circ$ , then find the minimum value of  $(4\operatorname{cosec}2A + 9\sin2A)$ ?

- A 6
- B -12
- C 12

D -18

Answer: C

Question 73

Which sport is Kidainbi Srikanth renowned for?

A Badminton

B Tennis

C Football

D Chess

Answer: A

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Question 74

X attempts 100 questions and gets 340 marks. If for every correct answer is 4 marks and wrong answer is negative one mark, then the number of questions wrongly answered by Mr. X is:

A 14

B 15

C 12

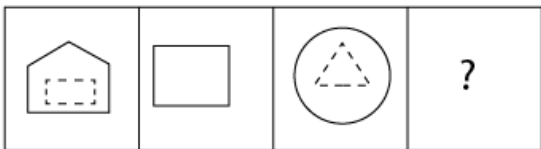
D 13

Answer: C

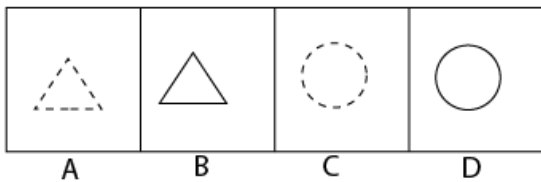
Question 75

Find the next figure for the given series:

**Problem Figures:**



**Answer Figures:**



A D

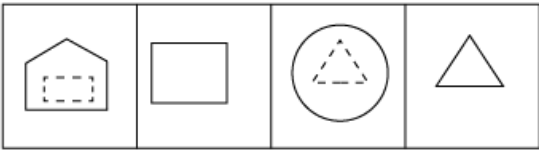
B C

C A

D B

Answer: D

Explanation:



The inscribed symbol of the 1st and 3rd images are displayed on 2nd and 4th boxes. So B is the missing image.

Option D is correct

Question 76

If one root of the equation  $(1-m)x^2 + 1 = 0$  is double the other and 'l' is a real number, then which of the following 6 is true?

A  $m > \frac{9}{8}$

B  $m > \frac{8}{9}$

C  $m = \frac{8}{9}$

D  $m \leq \frac{9}{8}$

Answer: D

Explanation:

$$(l-m)x^2 + 1 = 0$$

Let a and 2a be the roots of the equation

Sum of roots

$$a + 2a = \frac{-l}{l-m}$$

$$a = \frac{-l}{3(l-m)} \quad \text{---1}$$

Product of roots

$$a \times 2a = 2a^2 = \frac{1}{l-m} \quad \text{---2}$$

putting 1 in 2

$$9(l-m)^2 = \frac{1}{l-m}$$

$$2l^2 = 9(l-m)$$

$$2l^2 - 9l + 9m = 0$$

As l is a real number, Discriminant  $> 0$

$$81 - 72m \geq 0$$

$$9 - 8m \geq 0$$

$$m \leq \frac{9}{8}$$

Option D is correct.

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Question 77

Find the least number which should be subtracted from 9999 so that the difference is exactly divisible by 16?

- A 15
- B 12
- C 14
- D 13

**Answer: A**

**Explanation:**

$$\frac{9999}{16} = 624\frac{15}{16}$$

$$\frac{15}{16} \times 16 = 15$$

This 15 is needed to be subtracted from 9999 to get a number which is exactly divisible by 16

Option A is correct.

**Question 78**

**Choose the bird which does not belong to the group.**

- A Peacock
- B Eagle
- C Ostrich
- D Hen

**Answer: B**

**Question 79**

**Shillong is the capital of .....**

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

**Answer: B**

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**Question 80**

A sum of money invested for 4 years and 9 months at a rate of 8% simple interest per annum became ₹ 1,035 at the end of the period. What was the sum that was initially invested?

- A ₹ 700
- B ₹ 675
- C ₹ 725
- D ₹ 750

**Answer: D**

**Explanation:**

Let P be the Principal.

Amount = 1035

We know,

$$SI = \frac{PRT}{100}$$

$$I = \frac{(1035 - P) \times \frac{19}{4} \times 8}{100}$$

$$50I + 19I = 1035 \times 19$$

$$I = 285$$

$$\text{Principal} = 1035 - 285 = 750$$

Option D is correct.

**Question 81**

Which of the following elements has the largest-size ions?

- A P
- B Cl
- C Ar
- D S

Answer: A

**Question 82**

Momentum = .....?

- A Mass  $\times$  Acceleration
- B Mass / Volume
- C Mass  $\times$  Velocity
- D Mass  $\times$  Density

Answer: C

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**Question 83**

Which of the following statements is/are true about the speed of sound in different media at 25°C

- A. In steel, the speed of sound is 5960 m/s
- B. In nickel, the speed of sound is 6240 km/s

- A Only A is true
- B Neither A nor B is true
- C Both A and B are true
- D Only B is true

Answer: A



**Explanation:**

Sound travels at different speeds depending on what it is traveling through.

In steel, the speed of sound is 5960 m/s

In nickel, the speed of sound is 4970 m/s

Option A is correct.

**Question 84**

Which of the following Indian State Political parties is led by Rain Vilas Paswan?

- A Rashtriya Lok Samta Party
- B Lok Jahshakti Party
- C Rashtriya Lok Dal
- D Shiromani Akali Dal

**Answer: B**

**Question 85**

The general reaction between a metal oxide and an acid can be written as:

- A Metal oxide + acid → Salt + Water
- B Metal oxide + acid → Salt + precipitate
- C Metal oxide + acid → Water + gas
- D Metal oxide + acid → Salt + gas

**Answer: A**

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**Question 86**

Find the value of  $\frac{(0.22)^3 - (0.11)^3}{0.0484 + 0.0242 + 0.0121} = ?$

- A 0.9
- B 1.2
- C 2.0
- D 0.11

**Answer: D**

**Explanation:**

$$\frac{(0.22)^3 - (0.11)^3}{0.0484 + 0.0242 + 0.0121}$$

This is of the form,

$$\frac{a^3 - b^3}{a^2 + ab + b^2}$$

We know,  $(a^3 - b^3) = (a - b)(a^2 + ab + b^2)$

$$= \frac{(a-b)(a^2 + ab + b^2)}{a^2 + ab + b^2}$$

$$= (a - b)$$

$$= 0.22 - 0.11 = 0.11$$

Option D is correct.

**Question 87**

$4x^2 + kx + 5$  is divisible by  $x - 1$ . The expression is also divisible by

A  $4x - 5$

B  $x - 5$

C  $4x + 5$

D  $4x - 1$

Answer: A

**Question 88**

Who won the 'Outstanding Parliamentarian' Award for 2017 given by the Indian Parliamentary Group (IPG)?

A Bhartruhari Mahtab

B Arun Jaitley

C Narendra Modi

D Rahul Gandhi

Answer: A

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**Question 89**

The ratio of the ages of the father and the son ten years from the present was 11:3. Ten year hence the ratio would be 21:13. What are the present ages of the father and the son?

A 32, 16

B 22, 14

C 25, 15

D 32, 12

Answer: A

**Question 90**

..... has a very high melting and boiling points.

A Diamond

B Fullerene

C Graphite

D Charcoal

Answer: A

**Question 91**

In a group of 1300 students, every student reads 5 subjects and every subject is read by 65 students. The number of subjects are:

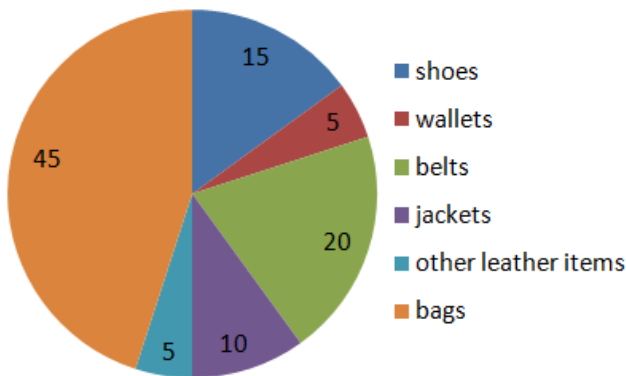
- A exactly 100
- B may be 250
- C at the most 70
- D at least 10

**Answer: A**

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**Question 92**

The following pie diagram shows the revenue of the company ABC. which manufactures the leather products. The total revenue of the company for the year 2015 was ₹ 36,28,000.



How much revenue was made on the sales of wallets & belts?

- A ₹ 9,07,000
- B ₹ 1,81,400
- C ₹ 90,700
- D ₹ 1,814,000

**Answer: A**

**Explanation:**

The total revenue of the company for the year 2015 was ₹ 36,28,000.

%age revenue of the company ABC in Belts and wallet =  $20 + 5 = 25$

Revenue was made on the sales of wallets & belts =  $0.25 \times 36,28,000$

= 9,08,000

Option A is correct.

**Question 93**

Which company has appointed Mr Rangarajan Raghavan as its Managing Director ?

- A WIPRO

- B TCS
- C INFOSYS
- D HCL Infosystems Ltd.

**Answer: D**

**Question 94**

'Purna Swaraj' was announced in the Indian National Congress session of .....

- A Nagpur
- B Poona
- C Calcutta
- D Lahore

**Answer: D**

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**Question 95**

Who became the first visually impaired Indian runner to complete the historic Boston Marathon in 2017?

- A Rinku Hooda
- B Sagar Baheti
- C Varun Bhati
- D Sharath Gayakwad

**Answer: B**

**Explanation:**

India's Sagar Baheti on 17 April 2017 became the first visually impaired Indian runner to complete the historic Boston Marathon.

Option B is correct.

**Question 96**

Which of the following ideals of the Constitution of India were inspired from Russia?

- A Amendment procedure
- B Fundamental Rights
- C Fundamental Duties
- D Directive Principles

**Answer: C**

**Question 97**

If in a certain code BRIM is written as AQHL, how would EDGE be written in that code?

- A FDCD

- B CDCF
- C DCGH
- D DCFD

Answer: D

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### Question 98

Which one of the following is NOT correct for Rhizoid?

- A They are multi-cellular and composed of epithelial tissues that
- B They are protuberances that extend from the lower epidermal cells of bryophytes.
- C They get attached with substratum with the help of rhizoid.
- D They are similar in structure and function to the root hairs of vascular land plant.

Answer: A

### Explanation:

Rhizoid are composed of epidermal cells, so option 1 is false.

Option A is correct.

### Question 99

The plant parts tends to move towards light, this phenomenon is called :

- A Positive phototropism
- B Negative tropism
- C Positive tropism
- D Negative phototropism

Answer: A

### Question 100

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

Statements:

- I. All gadgets are electronics.
- II. All electronics are chips.

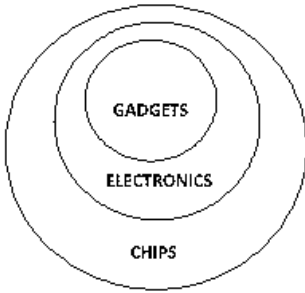
Conclusions:

- 1. All gadgets are chips.
- 2. Some chips are electronics.

- A Conclusion 1 alone follows.
- B Both 1 and 2 follows.
- C Conclusion 2 alone follows.
- D Neither 1 nor 2 follows.

Answer: B

Explanation:



1. All gadgets are chips. True
2. Some chips are electronics. True

Both Follows

Option B is correct.

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