



RRB Group-D 27th Sep 2018-shift -1

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RRB Group-D 27th Sep 2018-shift -1

Instructions

For the following questions answer them individually

Question 1

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

Question:

What is the total age of the sisters 10 years from now?

Statements:

1. Lina is 20 years old now.
2. Lina's sister's age is twice that of $\frac{1}{4}^{\text{th}}$ of the age of Lina.

- A Statement 1 alone is sufficient.
- B Statements 1 and 2 together are not sufficient.
- C Statement 2 alone is sufficient.
- D Statements 1 and 2 together are sufficient.

Answer: D

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Question 2

Who has won the Best Actor award in the 90th Oscar awards 2018?

- A Garry Oldman
- B Denzel Washington
- C Daniel Day Lewis
- D Daniel Kaluuya

Answer: A

Question 3

A person clapped his hands near a cliff and heard echo after 6 s. The distance of the cliff from the person is: [take $v = 346 \text{ m.s}^{-1}$]

- A 1038 m
- B 1083 m
- C 2076 m
- D 2706 m

Answer: A

Question 4

A car accelerates uniformly from 18 km.h^{-1} to 72 km.h^{-1} in 5 s. The acceleration of the car is:

- A 3 m.s^2
- B 10.8 m.s^{-2}

C 10.8 ms^2

D 3 ms^{-2}

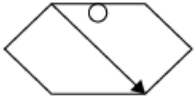
Answer: D

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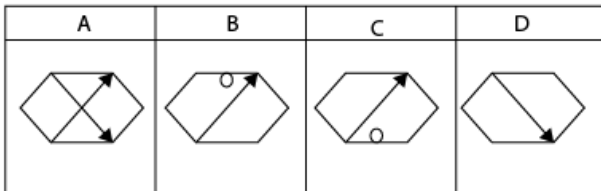
Question 5

Which of the option figures bears the closest resemblance to the question figure?

Question figure:



Option Figures:



A B

B D

C C

D A

Answer: C

Question 6

What is the percentage of oxygen in $\text{Al}_2(\text{SO}_4)_3$?

A 57.7%

B 56.1%

C 53.1%

D 52.6%

Answer: B

Question 7

Given is a question followed by two arguments. Decide which of the arguments is/are strong with respect to the question.

Question:

Should we avoid overuse of air conditioners?

Arguments:

I. Yes, it weakens the human system.

II. No, the comfort cannot be forsaken.

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

Answer: A

Explanation:

Overuse of air conditioners is harmful for human system is a strong argument. It weakens human system is also correct. So argument I is strong. But argument II opposes the argument I. So argument II is weak.

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Question 8

Prime Minister Narendra Modi laid the foundation stone of Char Dham highway development project or Chardham Mahamarg Vikas Paiyojna at

- A Rishikesh
- B Dehradun
- C Manikaran
- D Haridwar

Answer: B

Question 9

Pond is related to Water in the same way as Mountain is related to:

- A Birds
- B Rocks
- C Animals
- D Climb

Answer: B

Explanation:

Inside a Pond water will be there. Similarly in Mountains there will be Rocks.

Question 10

Who became the first Indian woman to win the Korea open series in Badminton?

- A Saina Nehwal
- B Jwala Gutta
- C Ashwini Ponnappa
- D P. V Sindhu

Answer: D

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Question 11

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

Question:

Among the bags A, B, C and D which one is the lightest bag?

Statements:

1. B is heavier than A
2. A is lighter than C and D

- A Statement 2 alone is sufficient
- B Statement 1 and 2 together are necessary
- C Statement 1 alone is sufficient
- D Statement 1 and 2 are not sufficient to solve

Answer: B

Explanation:

Statement 1: $B > A$

Statement 2: $CD > A$

If we merge both the statements, we can get the lightest person which is A. So both Statement 1 and 2 together are necessary to answer it.

Question 12

Name the country which won the 2017 Women's Hockey Asia Cup title?

- A Nepal
- B Pakistan
- C India
- D Bangladesh

Answer: C

Question 13

The median of the numbers 14, 12, 12, 16, 13 and 18 is:

- A 13
- B 14
- C 14.5
- D 13.5

Answer: D

Explanation:

14, 12, 12, 16, 13, 18

Firstly arrange the series in ascending order.

12, 12, 13, 14, 16, 18

There are two middle terms in the series. So median will be average of these two numbers.

So $\frac{(13+14)}{2} = 13.5$

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Question 14

PM Modi's Birthday has been celebrated as across India.

- A Kisan Diwas
- B Sewa Diwas
- C Hindi Diwas
- D Bal Diwas

Answer: B

Question 15

The Chola kings were prolific temple builders who built the temple at Tanjavur.

- A Brahmeshvara
- B Brihadeesvara
- C Lingaraja
- D Dilwara

Answer: B

Question 16

..... as is used as an illuminating gas.

- A Methyl
- B Propane
- C Butene
- D Ethyne

Answer: B

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Question 17

$80 \div [48 - \{56 - (60 - 36 \div 12 \times 4)\}] =$

- A 5
- B 8
- C 4
- D 2

Answer: D

Explanation:

$$80 \div [48 - \{56 - (60 - 36 \div 12 \times 4)\}]$$

First solve the small bracket with BODMAS rule.

$$80 \div [48 - \{56 - (60 - 12)\}]$$

Now solve the curly bracket with BODMAS rule.

$$80 \div [48 - \{56 - 48\}]$$

Lastly solve the big bracket with BODMAS rule.

$$80 \div [48 - \{8\}]$$

$$\frac{80}{40}$$

$$2$$

Question 18

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

Statement:

"Kirti played a very good shot on the pitch," says a friend to Sajit.

Conclusions:

I. Sajit likes cricket.

II. Kirti is a good player.

- A Conclusion I alone follows
- B Conclusion II alone follows
- C Neither I nor II follows
- D Both the conclusions follow

Answer: B

Explanation:

Conclusion I is talking about the cricket which is not mentioned in the statement. So it's not follow. Conclusion II follow because in statement it has been mentioned about very good shot. So it's follow.

Question 19

$$\frac{3}{4} + \left\{ \frac{3}{4} + \frac{3}{4} \div \left(\frac{3}{4} + \frac{3}{4} \right) \right\} = ?$$

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

Answer: C

Explanation:

$$\frac{3}{4} + \left\{ \frac{3}{4} + \frac{3}{4} \div \left(\frac{3}{4} + \frac{3}{4} \right) \right\}$$

First solve small bracket as per BODMAS rule.

$$\frac{3}{4} + \left\{ \frac{3}{4} + \frac{3}{4} \div \left(\frac{6}{4} \right) \right\}$$

$$\frac{3}{4} + \left\{ \frac{3}{4} + \frac{1}{2} \right\}$$

Now solve curly bracket as per BODMAS rule.

$$\frac{3}{4} + \frac{5}{4}$$

$$\frac{8}{4}$$

$$2$$

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Question 20

A water tank is $\frac{2}{5}$ th full. Inlet A can fill the tank in 12 minutes while an outlet pipe B can empty it in 6 minutes. If both the pipes are open, how long will it take to empty or fill the tank completely?

- A It fills in 4.8 min
- B It empties in 4.8 min
- C It fills in 5.6 min
- D It empties in 5.6 min

Answer: B

Explanation:

Pipe A can fill in 12 hours.

Pipe B can empty in 6 hours.

Let's assume total work is 60.

Efficiency of A = 5

Efficiency of B = -10

Tank is $\frac{2}{5}$ th full. It means that it's 24 parts filled.

If both pipes A and B are opened. Then efficiency will be -5.

So $\frac{24 \text{ parts}}{-5}$

-4.8 min. (Here negative sign represent for emptying.)

Question 21

38% of a number is 133. What is the number?

- A 340
- B 350
- C 360
- D 355

Answer: B

Explanation:

Suppose that number is Y.

38% of Y = 133

$$\frac{38}{100} \times Y = 133$$

$$Y = 133 \times \frac{100}{38}$$

Y = 350

Question 22

Who among the following had been roped in June 2017 by the Union Government of India to promote GST?

- A Sachin Tendulkar
- B Salman Khan
- C Amitabh Bachchan
- D Aishwarya Rai Bachchan

Answer: C

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Question 23

Find the square root of 15625 ?

- A 125
- B 145
- C 150
- D 135

Answer: A

Explanation:

For finding square root, first obtain the multiple of a number.

$$15625 = 5 \times 5 \times 5 \times 5 \times 5 \times 5$$

Now pairing the number and got $5 \times 5 \times 5$. Which is equal to 125.

Question 24

Complete the number series by choosing the missing terms from the options.

32, 64, 256, 1536, ?, 122880, 1474560

- A 122860
- B 12268
- C 12285
- D 12288

Answer: D

Explanation:

After analysing the series, we came to know that it's progressive in the multiple of 2, 4, 6, 8, 10, 12.

$$\text{So } 32 \times 2 = 64$$

$$64 \times 4 = 256$$

$$256 \times 6 = 1536$$

$$1536 \times 8 = 12288$$

$$12288 \times 10 = 122880$$

$$122880 \times 12 = 1474560$$

Question 25

If $\tan \alpha = \sqrt{3} + 2$, then the value of $\tan \alpha - \cot \alpha$ is

- A 2
- B $2\sqrt{3}$
- C $\sqrt{3} - 2$
- D 4

Answer: B

Explanation:

$$\tan \alpha = \sqrt{3} + 2 \quad \text{Eq.(1)}$$

$$\tan \alpha - \cot \alpha$$

$$\tan \alpha - \frac{1}{\tan \alpha}$$

$$\frac{\tan^2 \alpha - 1}{\tan \alpha} \quad \text{Eq.(2)}$$

Put Eq.(1) in Eq.(2).

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

$$\frac{(3+4\sqrt{3}+4)-1}{\sqrt{3}+2}$$

$$\frac{6+4\sqrt{3}}{\sqrt{3}+2}$$

Now multiply $(\sqrt{3} - 2)$ in numerator and denominator.

$$\frac{6+4\sqrt{3}}{\sqrt{3}+2}$$

$$\frac{6+4\sqrt{3}}{(\sqrt{3}+2)} \times \frac{\sqrt{3}-2}{(\sqrt{3}-2)}$$

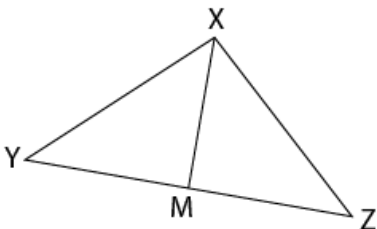
After apply multiplication got $\frac{6\sqrt{3}-12+12-8\sqrt{3}}{-1}$

$$\frac{-2\sqrt{3}}{-1}$$

$$2\sqrt{3}$$

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Question 26



In the diagram, M is the midpoint of YZ, $\angle XMZ = 32^\circ$, and $\angle XYZ = 16^\circ$. The measure of $\angle XZY$ is:

- A 68°
- B 84°

C 81°

D 74°

Answer: D

Question 27

Soft drinks contain:

A Oxalic acid

B Tartaric acid

C Carbonic acid

D Citric acid

Answer: C

Question 28

Raghu has invested ₹ 1000 and received ₹ 1300 at 6% per annul simple interest after X years. Find the value of X ?

A 4 years

B 3 years

C 2 years

D 5 years

Answer: D

Explanation:

Principal amount (P) = 1000

Interest = Total amount - Principal amount = 1300 - 1000 = 300

Rate = 6 %

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

$$= \frac{300 \times 100}{1000 \times 6}$$

= 5 years

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Question 29

Thorn Forests are found in

A Kashmir

B Kerala

C Sikkim

D Rajasthan

Answer: D

Question 30

Bending of light rays in denser medium is termed as:

- A Reflection
- B Dispersion
- C Refraction
- D Deflection

Answer: C

Question 31

In a shop 4.5% of 1500 kg toor dal was sold. Find the quantity sold.

- A 64.5 kg.
- B 63.5 kg.
- C 70 kg
- D 67.5 kg.

Answer: D

Explanation:

4.5% of 1500 kg toor dal

So sold quantity = 4.5×15
= 67.5 kg.

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Question 32

Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement

Statement:

School students are more influenced by their faculty nowadays.

Assumption:

I. School students consider their faculty as role models.

II. More time is spent at schools by students.

- A Neither I nor II is implicit
- B Only II is implicit
- C Only I is implicit
- D Either I or II is implicit

Answer: C

Explanation:

Statement itself giving us a reason that School students are more influenced by their faculty. So if they are influenced by their faculty then obviously they will them as a role model. Second assumption is saying about spending time with them which is totally illogical.

Question 33

An object travels 23 m in 3 s and then another 15 m in 2 s. What is the average speed of the object?

- A 7.6 m s^{-1}
- B 7.6 s^{-1}
- C 8.0 m s^{-1}
- D 7.6 m

Answer: A

Question 34

Find the next term in the following series:
X24C, V22E, T20G,

- A RI19
- B R19I
- C R18I
- D RI18

Answer: C

Explanation:

After analysis the series, We came to know that first alphabet is preceding by -2 and last letter is succeeding by +2. Number will be the place value of first alphabet.

so after applying these things missing term will be **R18I**.

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Question 35

Pipe A is an inlet pipe that can fill an empty cistern in 69 hours. Pipe B can drain the filled cistern in 46 hours. When the cistern was filled the two pipes are opened one at a time for an hour each, starting with Pipe B. how long will it take for the cistern to be empty?

- A 11 days 10 hours
- B 11 days 7 hours
- C 11 days 12 hours
- D 1 days 13 hours

Answer: B

Explanation:

Pipe A can fill cistern in 69 hours.

Pipe B can empty cistern in 46 hours.

Let's assume total work = 138

Efficiency of A = 2

Efficiency of B = -3 (Subtraction sign is due to outlet pipe.)

For empty the cistern, Alternatively pipe B and A respectively work. So in every 2 hours 1 part of tank is empty out of total 138.

Then we can say that for emptying 135 parts, we need 270 hours and last 1 hour B will empty 3 parts.

So $270 + 1 = 271$ hours

If we convert 271 hours in days by dividing 24. Then got 11 days 7 hours.

Question 36

When a constant force acts on an object with a mass of 8 kg for a duration of 3 s. it increases the object's velocity from 4 ms^{-1} to 6 ms^{-1} . What is the magnitude of the applied force?

- A 5.33 N
- B 4.33 N
- C 6.33 N
- D 3.33 N

Answer: A

Question 37

Find the next term in the following series.

Z26, X24, V22,

- A T20
- B W23
- C K15
- D J10

Answer: A

Explanation:

In this series alphabet is preceded by -2 and number is the place value of that letter.

So answer will be T20.

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Question 38

An object of 10 kg is moving with a speed of 2 m/s. The kinetic energy of the object is:

- A 20 J
- B 5 J
- C 10 J
- D 40 J

Answer: A

Question 39

If a is positive and $a^2 + \frac{1}{a^2} = 7$, then $a^3 + \frac{1}{a^3} = ?$

- A 21
- B $3\sqrt{7}$
- C 18
- D $7\sqrt{7}$

Answer: C

Explanation:

$$a^2 + \frac{1}{a^2} = 7$$

Addition 2 in both sides of equation.

$$a^2 + \frac{1}{a^2} + 2 = 7 + 2$$

$$a^2 + \frac{1}{a^2} + 2 = 9 \quad \text{Eq.(1)}$$

Eq.(1) is making the formula of $(a + \frac{1}{a})^2$.

After removing the square got $(a + \frac{1}{a}) = \pm 3$

In question, it is mentioned that value of **a** is positive.

$$\text{So } (a + \frac{1}{a}) = 3 \quad \text{Eq.(2)}$$

In Eq.(2) apply formula $(a + \frac{1}{a})^3$.

$$\text{So } (a + \frac{1}{a})^3 = a^3 + (\frac{1}{a})^3 + 3 \times a \times (\frac{1}{a})[a + \frac{1}{a}]$$

$$(a + \frac{1}{a})^3 = a^3 + (\frac{1}{a})^3 + 3[a + \frac{1}{a}] \quad \text{Eq.(3)}$$

Put Eq.(2) in Eq.(3).

$$(3)^3 = a^3 + (\frac{1}{a})^3 + 3 \times 3$$

$$27 = a^3 + (\frac{1}{a})^3 + 9$$

$$27 - 9 = a^3 + (\frac{1}{a})^3$$

$$18 = a^3 + (\frac{1}{a})^3$$

$$a^3 + (\frac{1}{a})^3 = 18$$

Question 40

..... elements have the largest atoms.

A F

B O

C H

D Li

Answer: D

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Question 41

West Bengal shares boundaries with countries.

A 2

B 4

C 1

D 3

Answer: D

Question 42

Find the odd one out

A	B	C	D
1595	1425	1725	1325
AEIE	ADBE	AGBE	ACBE

A C

B D

C A

D B

Answer: C

Question 43

If a person moves a trolley for a distance of 10 m with a force of 50 N, then the work done is:

A 0.2 J

B 5 J

C 20 J

D 500 J

Answer: D

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Question 44

A and B can complete a task in 1.5 days. However, A had to leave a few days before the task was completed and hence it took 2 days in all to complete the task. If A alone could complete the work in 2.625 days, how many days before the work getting over did A leave?

A 1.125

B 0.625

C 0.375

D 0.875

Answer: D

Explanation:

A + B together can do the work in 1.5 days.

A alone can do the work in 2.625 days.

Let's assume total work is 2625.

Then efficiency of A = 1000

Efficiency of A + B = 1750

Efficiency of B = 750

Now in question it has given that A work for some days, which we assume as Y. B work for 2 days.

So $Y \times \text{efficiency of A} + 2 \times \text{efficiency of B} = 2625$

$$Y \times 1000 + 2 \times 750 = 2625$$

$$Y \times 1000 + 1500 = 2625$$

$$Y \times 1000 = 2625 - 1500$$

$$Y \times 1000 = 1125$$

$$Y = 1.125 \text{ (A's working days.)}$$

So $2 - 1.125 = 0.875$ (A's leaving days before the work completed.)

Question 45

A/An tissue is formed beneath the skin and between internal organs.

- A Epithelial
- B Nervous
- C Muscular
- D Adipose

Answer: D

Question 46

If MEAT is coded as 135120. then what will be the code for ZEBRA?

- A 2652181
- B 2652191
- C 2662181
- D 2662191

Answer: A

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Question 47

Who among the following hosted the Hindi version of "Bin Boss-11"?

- A Aamir Khan
- B Salman Khan
- C Shilpa Shetty
- D Farhan Akhtar

Answer: B

Question 48

..... is the property of attracting electrons by the halogen atoms in a molecule.

- A Electron affinity

- B Electro positivity
- C Electro chemistry
- D Electro negativity

Answer: D

Question 49

The headquarter of the Board of Control for Cricket in India (BCCI) is located in:

- A Delhi
- B Mumbai
- C Chennai
- D Kolkata

Answer: B

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Question 50

Which of the following inert gases is placed in period 4 of the periodic table?

- A Kr
- B Rn
- C Xe
- D Ar

Answer: A

Question 51

In a code language, AILMENT is written as 1923540. What is the code for DISEASE?

- A 4985195
- B 4995195
- C 4905195
- D 4995196

Answer: B

Question 52

Sabrina travelled 8 km/hr on foot and 13 km/hr on cycle. She travelled a distance of 84 km in 8 hours. For how many hours did she cycle?

- A 4
- B 5
- C 3

D 2

Answer: A

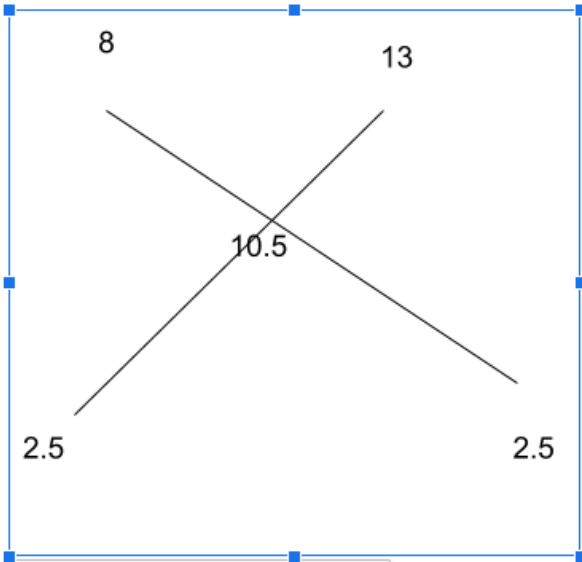
Explanation:

On foot speed = 8 km/hr

On cycle speed = 13 km/hr

Average speed = $84\text{km} \div 8\text{hours} = 10.5 \text{ km/hr}$

Now apply allegation.



Edit - In line | Wrap text | Break text

So total 8 hours which is divided equally.

By cycle it has travelled 4 hours.

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Question 53

Venu is the Son of Avani and Amit is the son of Avani's brother. How is Amit's Mother related to Venu?

- A Sister
- B Maternal aunt
- C Paternal aunt
- D Cousin

Answer: B

Question 54

Who is considered as the father of taxonomy?

- A Darwin
- B Einstein
- C Mandelbrot
- D Linnaeus

Answer: D

Question 55

5th January 2018 was a Friday. Which of the following years will also have 5th January on a Friday?

- A 2022
- B 2020
- C 2024
- D 2023

Answer: C

Explanation:

Every year one day will be increased. But in leap year 2 days will be increased. So for increasing 7 days, we have to go upto 2024. So on 5th January 2024 that day will be repeated.

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Question 56

As per RBI Annual Report 2016-17, what is the estimated value of demonetised banknotes received?

- A ₹ 12.25 lakh crore
- B ₹ 15.28 lakh crore
- C ₹ 19.48 lakh crore
- D ₹ 13.35 lakh crore

Answer: B

Question 57

Who among the following was crowned with the Miss World 2017 title?

- A Andrea Meza
- B Rolene Strauss
- C Manushi Chillar
- D Aurore Kichenin

Answer: C

Question 58

For the data given below. find the sum of mode. median and mean.

6, 3, 8, 4, 3, 11, 7, 4, 5, 4.

- A 13.5
- B 13
- C 14
- D 14.5

Answer: C

Explanation:

6, 3, 8, 4, 3, 11, 7, 4, 5, 4

Arrange the series in ascending order.

3, 3, 4, 4, 4, 4, 5, 6, 7, 8, 11

$$\text{Median} = \frac{(4+5)}{2} = 4.5 \quad \text{Eq.(1)}$$

Mode = most repeated number = 4 Eq.(2)

$$\text{Mean} = \frac{(6+3+8+4+3+11+7+4+5+4)}{10}$$
$$= \frac{55}{10}$$

$$= 5.5 \quad \text{Eq.(3)}$$

Addition Eq.(1), Eq.(2) and Eq.(3).

$$= 4.5 + 4 + 5.5$$

$$= 14$$

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Question 59

Vishal is 20 years younger to Arya. Twelve years hence Arya's age will be 1.25 times that of Vishal. Arya is now years old.

- A 78
- B 68
- C 88
- D 72

Answer: C

Explanation:

$$\text{Vishal's age} = \text{Arya's age} - 20 \quad \text{Eq.(1)}$$

$$\text{Arya's age} + 12 = 1.25 (\text{Vishal's age} + 12) \quad \text{Eq.(2)}$$

Put Eq.(1) in Eq.(2).

$$\text{Arya's age} + 12 = 1.25 (\text{Arya's age} - 20 + 12)$$

$$\text{Arya's age} + 12 = 1.25 (\text{Arya's age} - 8)$$

$$\text{Arya's age} + 12 = 1.25\text{Arya's age} - 1.25 \times 8$$

$$.25\text{Arya's age} = 12 + 10$$

$$\text{Arya's age} = \frac{22}{.25}$$

$$\text{Arya's age} = 88 \text{ years}$$

Question 60

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

Statement:

Looking at Limay's new watch, Nita comments, "Oh, that's so awesome. Where did you buy it from?"

Conclusions:

I. Limay's watch is attractive.

II. Nita wants to know where to buy a similar watch from.

- A Both the conclusions follow
- B Conclusion II alone follows
- C Neither I nor II follows
- D Conclusion I alone follows

Answer: A

Explanation:

Sense of attractive watch is getting from statement itself. For asking about place from where he has bought shows her desire for that. So both the conclusions will follow.

Question 61

In, Sher Khan (SherShah)attacked Bengal and defeated Ghiyashuddin Shah.

- A 1358
- B 1583
- C 1538
- D 1540

Answer: C

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Question 62

By selling a used phone for ₹ 7,260 Sanjan got 34% less than what it cost him to buy it a few years ago. At what price should Sanjan have sold the phone to gain a profit of 5%?

- A ₹ 11,460
- B ₹ 11,480
- C ₹ 11,550
- D ₹ 11,420

Answer: C

Explanation:

Sanjan got 34% less means (100 - 34)%.

So 66% = 7260

$$1\% = \frac{7260}{66} = 110$$

Hence 105% = 110 × 105

= 11550

Question 63

You are given a question and three statements. Identify which of the statements is/are necessary/sufficient to answer the question. L, M, N, O and P are standing in a circle facing the centre. Who is standing to the right of L?

Statements:

1. Next to L are P and M
2. O is standing to the right of P
3. O is standing to the left of N

- A Statement 1 and 2 are not sufficient
- B Statements 1 and 2 together are sufficient
- C The statements are insufficient
- D Statement 1 alone is sufficient

Answer: C

Explanation:

All the statements are insufficient to answer the question. Because there is not any word like immediate mentioned in statement which creates multiple possibilities from that conditions.

Question 64

In a code language, FATE is written as 61205. What is the code for LEAN?

- A 125114
- B 125115
- C 126114
- D 135114

Answer: A

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Question 65

Which of the following numbers is irrational?

- A $\sqrt[10]{1024}$
- B $\sqrt[4]{1024}$
- C $\sqrt{1024}$
- D $\sqrt[5]{1024}$

Answer: B

Explanation:

Irrational numbers are those numbers which can't be written in fractional form. Here if we check all the options then came to know that except option B rest of numbers can be written. In option B power come in decimal.

Question 66

Find the next term in the given series.

B2, K12, T72,

- A C432
- B A434
- C A432
- D C434

Answer: A

Explanation:

In series each alphabet is succeeded by +9 in the place value of alphabet. Number will be multiplied by 6.

So next term will be **C432**.

Question 67

The famous activist Irom Chanu Sharmila is better known as 'The Iron Lady of

- A Manipur
- B Mizoram
- C Nagaland
- D Tripura

Answer: A

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Question 68

..... helps the eye to adjust the focal length of the lens.

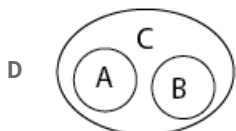
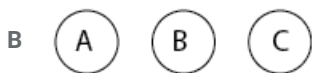
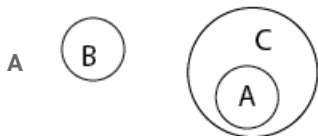
- A Lens
- B Ciliary body
- C Retina
- D Entire eye ball

Answer: B

Question 69

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

- A) Bell
- B) Water
- C) Brass



Answer: A

Question 70

Name the Chief Minister of Telangana who was honoured with the Global Agricultural Leadership Award 2017.

- A Siddaramaiah
- B K. T. Rama Rao
- C N. Chandrababu Naidu
- D K. Chandra Shekhar Rao

Answer: D

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Question 71

What is the full form of ASSOCHAM?

- A Associated Chambers of Commerce and Industry
- B Association of Commerce
- C Associated Commerce
- D Associated Chambers in India

Answer: A

Question 72

Name the Bollywood actor who received Kala Ratan Award in March 2017?

- A Naseeruddin Shah
- B Akshay Kumar
- C Anupam Kher
- D Jitendra

Answer: C

Question 73

Where the mature sperm are produced?

- A Scrotum
- B Vas deferens
- C Prostate gland
- D Testes

Answer: D

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Question 74

Asexual reproduction takes place in:

- A Plants
- B Higher animals
- C Lower animals
- D Lower animals and plants

Answer: D

Question 75

Tribeni had to travel 175 km in 3.5 hours. However, she travelled at the rate of 58 km/hr for 2.5 hours and then rested for 20 minutes before completing the journey. If Tribeni managed to reach on time, her speed during the last stretch would have been

- A 36 km/hr
- B 30 km/hr
- C 42.5 km/hr
- D 45 km/hr

Answer: D

Explanation:

First he travelled 58 km/hr in 2.5 hours.

$$\text{Distance} = 58 \text{ km/hr} \times 2.5 \text{ hours} = 145 \text{ km}$$

$$\text{Remaining distance} = \text{Total distance} - \text{Distance travelled initially} = 175 \text{ km} - 145 \text{ km} = 30 \text{ km}$$

$$\text{Remaining time} = \text{Total time} - (\text{Initially travelled time} + \text{Rest time}) = 3.5 \text{ hours} - (2.5 \text{ hours} + \frac{1}{3} \text{ hours}) = \frac{2}{3} \text{ hours}$$

$$\text{Speed for remaining journey} = \frac{\text{Remaining distance}}{\text{Remaining time}}$$

$$= \frac{30}{\frac{2}{3}}$$

$$= 45 \text{ km/hr}$$

Question 76

Who among the following was sworn in as the Chief Minister of Manipur in 2017?

- A M Koireng Singh
- B N Siren Singh
- C Longjam Thambou
- D M Alimuddin Singh

Answer: B

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Question 77

An object travels 24 m in 3 s and then another 15 m in 2 s. What is the average speed of the object?

- A 7.8 s^{-1}
- B 7.8 m s^{-1}
- C 8.0 m
- D 6.67 m s^{-1}

Answer: B

Question 78

$$(-12)[11 + \{7 \times (-3)\}] \div [4 \{13 - (-3) \times (-6)\}] =$$

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

Answer: A

Explanation:

$$(-12)[11 + \{7 \times (-3)\}] \div [4 \{13 - (-3) \times (-6)\}]$$

First solve small bracket as per BODMAS rule.

$$-12[11 + \{-21\}] \div [4 \{13 - 18\}]$$

Solve curly bracket as per BODMAS rule.

$$-12[11 - 21] \div [4 \times (-5)]$$

Now solve big bracket as per BODMAS rule.

$$120 \div (-20)$$

-6

Question 79

An object having the capability to do work is said to possess:

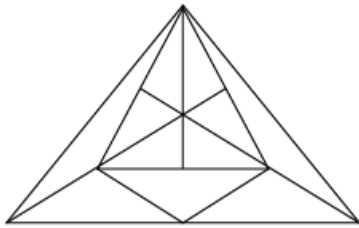
- A Inertia
- B Force
- C Pressure
- D Energy

Answer: D

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Question 80

How many triangles are there in this figure?



A 21

B 23

C 22

D 20

Answer: B

Question 81

..... is displaced when zinc is added to the solution of copper sulphate.

A Copper

B Hydrogen

C Zinc

D Sulphate

Answer: A

Question 82

Atomic radius is measured in:

A Micrometres

B Nanometres

C Millimetres

D Centimetres

Answer: B

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Question 83

..... compound is used as a drying agent.

A Calcium oxide

B Calcium carbide

C Gypsum

D Calcium carbonate

Answer: A

Question 84

What will come in the place of question mark (?) in the below series?

$\Omega \leq \textcircled{R}$	$\textcircled{R} \Omega \geq$	$\Omega < \textcircled{R}$?
-------------------------------	-------------------------------	----------------------------	---

A	B	C	D
$\Omega \textcircled{R} >$	$\textcircled{R} > \Omega$	$\textcircled{R} \Omega >$	$\textcircled{R} < \Omega$

A A

B D

C B

D C

Answer: D

Explanation:

After observing figures, we can easily get that first and second box symbol's rotation is on the same way. So third and forth box will follow it. Forth figure will be option D.

Question 85

Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement.

Statement:

"The use of antibiotic tablets, destabilises the gut bacteria".

Assumptions:

I. There are friendly bacteria in the gut.

II. Gut health is foremost for overall health.

A Both I and II are implicit.

B Only I is implicit.

C Only II is implicit.

D Neither I nor II is implicit.

Answer: B

Explanation:

In statement bacteria destabilises due to antibiotic tablets says, it means there are some good bacteria. So Assumption I implicit. Regarding Assumption II nothing is mentioned. So it's not implicit.

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Question 86

A mass of 20 kg is at a height of 8 m above the ground. Then the potential energy possessed by the body is: [Given $g = 9.8 \text{ m.s}^{-2}$]

A 1568 J

B 1568 C

C 1568 W

D 1568 N

Answer: A

Question 87

1kWH =J

A 3.6×10^{-8}

B 3.6×10^{-6}

C 3.6×10^8

D 3.6×10^6 J

Answer: D

Question 88

Which of the option figures bears the closest resemblance to the question figure?

Question figure:



Option Figures:

A	B	C	D

A B

B D

C C

D A

Answer: A

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Question 89

What is the average price difference per kg (in ₹) for vegetables between two years for the three months given in the following table?

Months	Price per kg - Year 1	Price per kg - Year 2
Jan	40	35
Feb	40	50
Mar	40	35

- A Average price of vegetables in Year 1 is less than that in Year 2.
- B There is no difference in the average price.
- C Average price of vegetables in Year 2 is less than that in Year 1.
- D We cannot compare the prices.

Answer: B

Question 90

Select the lateral mirror image of TEETH from the given option figures?

Option Figures:

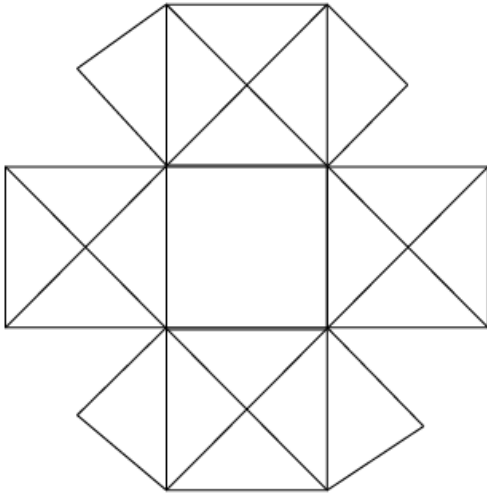
TEETH	HT33T	1EE3H	H133L
A	B	C	D

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

Answer: D

Question 91

How many triangles are there in the following figure?



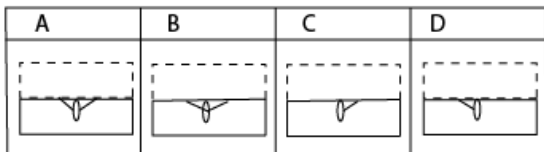
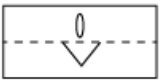
- A 48
- B 32
- C 46
- D 30

Answer: E

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Question 92

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



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

Answer: C

Question 93

In the year 2016, there were 52 weeks and P days. Find the value of P.

- A 2

B 4

C 3

D 5



Answer: A

Explanation:

2016 is a leap year. So it has 366 days. If we convert them into week then got 52 weeks and 2 days.

So P = 2 days.

Question 94

Which of the fractions given below is not equal to $\frac{4}{11}$?

A $\frac{32}{88}$

B $\frac{84}{209}$

C $\frac{64}{176}$

D $\frac{20}{55}$

Answer: B

Explanation:

After simplify all the fractions given in options, we can get the odd one.

$$\frac{32}{88} = \frac{4}{11}$$

$$\frac{84}{209} \text{ (This is not equal to } \frac{4}{11} \text{.)}$$

$$\frac{64}{176} = \frac{4}{11}$$

$$\frac{20}{55} = \frac{4}{11}$$

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Question 95

Select the option that can replace the question mark (?) in the following series.

<table border="1"> <tr> <td>JF</td> <td>Ω</td> </tr> <tr> <td>±±</td> <td>≤A</td> </tr> </table>	JF	Ω	±±	≤A	<table border="1"> <tr> <td>±</td> <td>∅</td> </tr> <tr> <td>≤A</td> <td>Ω</td> </tr> </table>	±	∅	≤A	Ω	<table border="1"> <tr> <td>≤A</td> <td>±±</td> </tr> <tr> <td>Ω</td> <td>JF</td> </tr> </table>	≤A	±±	Ω	JF	?
JF	Ω														
±±	≤A														
±	∅														
≤A	Ω														
≤A	±±														
Ω	JF														

A	B								
<table border="1"> <tr> <td>±±</td> <td>Ω</td> </tr> <tr> <td>∅</td> <td>≤A</td> </tr> </table>	±±	Ω	∅	≤A	<table border="1"> <tr> <td>≤A</td> <td>Ω</td> </tr> <tr> <td>∅</td> <td>±</td> </tr> </table>	≤A	Ω	∅	±
±±	Ω								
∅	≤A								
≤A	Ω								
∅	±								
C	D								
<table border="1"> <tr> <td>Ω</td> <td>≤A</td> </tr> <tr> <td>∅</td> <td>±±</td> </tr> </table>	Ω	≤A	∅	±±	<table border="1"> <tr> <td>Ω</td> <td>≤A</td> </tr> <tr> <td>∅</td> <td>±</td> </tr> </table>	Ω	≤A	∅	±
Ω	≤A								
∅	±±								
Ω	≤A								
∅	±								

A B

B C

C D

D A

Answer: C

Explanation:

Box 1 to Box 2 symbols are shifted one by one place and any symbol which is twice converted in to single one. Similarly Box 3 to Box 4 transformation will be done.

Question 96

Alarms from 3 different clocks sound after every 2, 4 and 6 hours, respectively. If the clocks are started at the same time, how many times do the alarms ring together in 3 days?

A 6

B 3

C 9

D 2

Answer: A

Explanation:

If we take the LCM of 2, 4 and 6 hours then got 12 hours.

In 12 hours alarms ring simultaneously once.

It means 12 hours = 1.

Hence 3 days = 72 hours = 6.

Question 97

Meet starts cycling early in the morning, facing the Sun. After some time, he takes a 45° turn to his left and then again turns 80° towards his left. In which direction is he now with respect to his initial position?

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

Answer: C

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Question 98

As of August 2018, what is the portfolio held by the current Union Minister Ravi Shankar Prasad?

- A Human Resource Development
- B Petroleum
- C Law and Telecommunications
- D Coal

Answer: C





Question 99

Which of the option figures bears the closest resemblance to the question figure?

Question figure:



Option Figures:

A	B	C	D
			

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

Answer: B

Explanation:

After visualizing, We can see that option B is the most closest figure.

Question 100

$$(-18)[36 \div \{7 - (-2)\}] \div (-4) \{19 - (-3) \times (-5)\} = ?$$

- A -4.5
- B 4.5
- C 2.5
- D -2.5

Answer: B

Explanation:

$$(-18)[36 \div \{7 - (-2)\}] \div (-4) \{19 - (-3) \times (-5)\}$$

Solve small, curly and big bracket respectively as per BODMAS rule.

$$(-18)[36 \div 9] \div (-4) \{19 - 15\}$$

$$[(-18) \times (4)] \div [(-4) \times \{4\}]$$

$$18 \div 4$$

$$4.5$$

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