



RRB Group-D 12th Oct 2018-shift -2

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Instructions

For the following questions answer them individually

Question 1

Which state cricket team has won the 2018 Vijay Hazare trophy?

- A Mumbai
- B Tamil Nadu
- C Odisha
- D Karnataka

Answer: D

Explanation:

The **Karnataka cricket team** has won the 2018 Vijay Hazare trophy after defeating Saurashtra in the final by 41 runs at the Feroz Shah Kotla, Delhi on February 27. With this, It has won the Vijay Hazare trophy 3 times.

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Question 2

Given is a question followed by two arguments numbered I and II. Read the question and decide which of the arguments is strong with respect to the question.

Question:

Should shifting agriculture be practiced?

Arguments:

- I. No. It is not a worthy practice.
- II. Yes. When compared to modern methods of farming, it is less expensive.

- A Only argument II is strong.
- B Only argument I is strong.
- C Neither argument I nor II is strong.
- D Either argument I or II is strong.

Answer: A

Question 3

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

Statement:

Recent research says listening to specific types of frequencies have a positive effect on human brain and it aids in healing.

Conclusions:

- I. Human brain responds to music.
- II. Certain frequencies are used to heal diseases in human body.

- A Both the conclusions follow.
- B Neither conclusion follows.
- C Only conclusion I follows.
- D Only conclusion II follows.

Answer: D

Question 4

What is the missing term in the series?

YB25, WD23,, SH19

- A UG21
- B UF21
- C UF20
- D UG20

Answer: B

Explanation:

Y $\xrightarrow{-2}$ W $\xrightarrow{-2}$ U

B $\xrightarrow{+2}$ D $\xrightarrow{+2}$ F

25 $\xrightarrow{-2}$ 23 $\xrightarrow{-2}$ 21

Here option 'B' is correct.

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Question 5

A solid metallic hemisphere with radius r is melted and cast into a solid right circular cone with the radius of the base = r . What is the ratio of their curved surface areas?

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

Answer: B

Question 6

Four numbers. a , b , c and d , are such that their overall average is 26.5. The average of a and b is 20. The average of c and d is:

- A 35.5
- B 31.5
- C 33
- D 32.5

Answer: C

Explanation:

$$\frac{a+b+c+d}{4} = 26.5 \text{ and } \frac{a+b}{2} = 20$$

by solving above we can find $c+d=66$

so average of c and d is 33 ,

Hence option 'C' is correct.

Question 7

Recently in 2018, assembly elections took place in which of the following states?

- A Meghalaya
- B Gujarat
- C Assam
- D West Bengal

Answer: A

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Question 8

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

Statement:

Some jaguars are cheetahs, Some cheetahs are leopards. All leopards are panthers.

Conclusion:

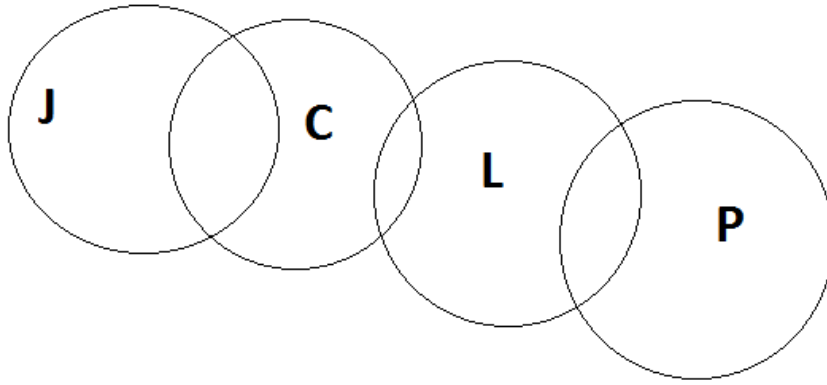
1. All leopards are jaguars.
2. Some panthers are cheetahs.

- A Only conclusion 2 follows
- B Only conclusion 1 follows
- C Either 1 or 2 follows
- D Both 1 and 2 follows

Answer: A

Explanation:

Here take 1st letter from all like 'J' from jaguars.



Hence option 'A' is correct.

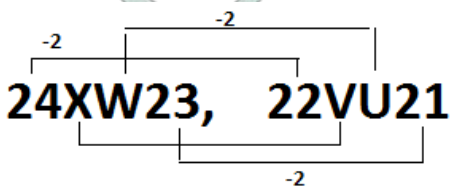
Question 9

Find the next term in the following series.
24XW23, 22VU21,

- A 20RT19
- B 20TS19
- C 20TR19
- D 20ST19

Answer: B

Explanation:



Here each term decreasing by value 2 either in alphabet or in number, hence option 'B' is correct.

Question 10

Who among the following approved the procurement of 111 utility helicopters for the Indian Navy at a cost of over ₹ 21,000 crores?

- A Defence Acquisition Council
- B Defence Procurement Commission
- C Defence Purchase Association
- D Defence Dealers Association

Answer: A

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Question 11

Genetic information is carried by long chains of molecules. What are these molecules called?

- A Phosphates
- B Nitrogenous Bases
- C RNA
- D Nucleotides

Answer: D

Question 12

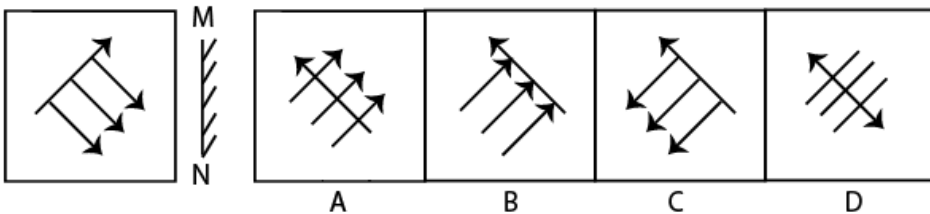
Astronauts in space communicate with each other by radio links because

- A sound waves can't travel in space
- B sound waves have low frequency
- C sound waves travel slowly in space
- D sound waves travel quickly in space

Answer: A

Question 13

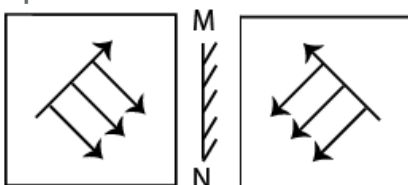
Choose the mirror image for the following figure:



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

Answer: B

Explanation:



apart from figure 'C', in all figure arrow either bisect or arranged in different way ,

Hence option 'B' is correct.

Question 14

Who is termed as the 'Plastic Man of India', who has found a way to reuse plastic waste and make durable roads?

- A Rajagopalan Vasudevan
- B Rajagopalan \Thrughanantiam
- C Artinachalani Muruganantham
- D Anmachalain Vasudevan

Answer: A

Question 15

Starting from point O facing West a man walks 4 km to reach point A. He turns right, walks 4 km and reaches point B. Then, he turns right, walks 4 km and reaches point C. He turns right. walks 3 km and reaches point D. He turns left. walks 4 km and reaches point E. Then, he turns right. walks 5 km and reaches point F. At point F, the man is facing direction.

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

Answer: B

Question 16

The kinetic energy acquired by a mass (m) in traveling distance starting from rest under the action of constant force is directly proportional to:

- A $\frac{1}{m}$
- B m^0
- C m
- D $\frac{1}{\sqrt{m}}$

Answer: B

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Question 17

The royal city at Fatehpur Sikri, was built by Mughal Emperor in honour of Sufi saint Shaikh Salim Chishti.

- A Aurangzeb
- B Humayun
- C Shah Jahan
- D Akbar

Answer: D

Question 18

Consider the following statement and decide which of the conclusions logically follows from the statements.

Statements:

If you're a good computer programmer, then we definitely have a job for you.

Conclusions:

1. Good computer programmers are never jobless.
2. We are in need of a good computer programmer.

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

Answer: B

Question 19

Find out the two signs that need to be switched for the equation to be equated.

$$5 + 6 \times 3 - 4 \div 2 = (-1)$$

- A \times & $+$
- B $-$ & \div
- C \div & \times
- D $+$ & $-$

Answer: C

Explanation:

If we switch \div & \times and solving by BODMAS rule then equation will get satisfied,

Hence option 'C' is correct.

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Question 20

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

Alight: Descend :: House :

- A Pound
- B Home
- C Hug
- D Hen

Answer: B

Explanation:

Descend is a synonym for alight in land topic,

similarly Home is synonym of house ,

Hence option 'B' is correct.

Question 21

Non-metals are generally more electronegative due to their:

- A large number of electrons.
- B smaller atomic radii
- C smaller atomic number.
- D smaller ionization energy.

Answer: B

Question 22

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

Question:

There are 6 baskets in a supermarket that are used to load and unload commodity. All have been filled with tins of 2 different sizes and shapes. In total, how many tins have been loaded in the baskets?

Statements:

1. The shape of 6 tins is such that in one whey, only 2 can fit.
2. The tins contain processed sauce

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

Answer: A

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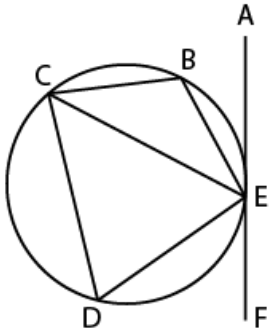
Question 23

Who has played the lead role in the movie 'Dangal' released in 2016?

- A Akshay Kumar
- B Shah Rukh Khan
- C Aamir Khan
- D Raj Kumar Rao

Answer: C

Question 24



In the figure given above, AF is a tangent to the circle at E, $\angle CDE = 80^\circ$ and $m(BC) = m(BE)$. What is the measure of $\angle BEA$?

- A 30°
- B 45°
- C 40°
- D 35°

Answer: C

Question 25

The property of metals wherein they can be beaten into thin sheets is called:

- A expansion
- B malleability
- C ductility
- D conduction

Answer: B

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Question 26

Mass / Volume =

- A Pressure
- B Area
- C Density
- D Force

Answer: C

Question 27

..... tissue is found beneath the skin, around the kidneys and between the internal organs.

- A Ligament
- B Areolar

C Tendons

D Adipose

Answer: D

Question 28

Who among the following is known as 'The Guardian of Public Purse'?

A Attorney General

B Comptroller & Auditor General

C Chief minister

D Prime minister

Answer: B

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Question 29

Read the given statement(s) and conclusions carefully. Assuming that the information in the statement(s) is true, even if they appear to be at variance with commonly known facts, select which of the conclusions logically follow(s) from the statement(s) beyond reasonable doubt.

Statements:

All crayons are pens

All pens are nibs

Conclusions:

(I) All crayons are nibs

(II) All nibs are crayons

A Only II follows

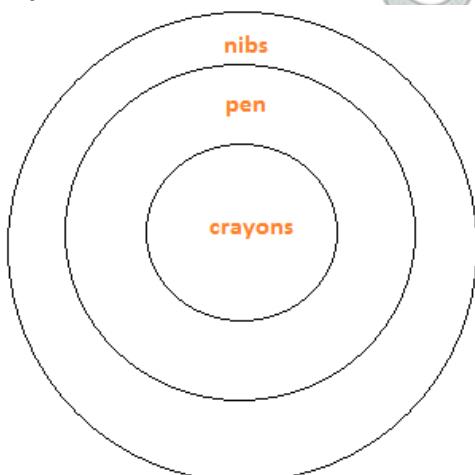
B Only I follows

C Both I and II follow

D Neither I nor II follows

Answer: B

Explanation:



Hence option 'B' is correct.

Question 30

Which of the following numbers will have an even number of factors?

- A 16900
- B 52900
- C 30000
- D 36100

Answer: C

Question 31

The SI unit of thrust is

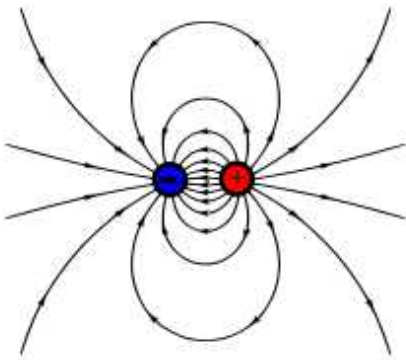
- A Pascal
- B Ohm
- C Newton
- D Joule

Answer: C

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Question 32

The diagram shows the force field produced by a current-carrying wire. Name the force field.



- A Electrostatic field
- B Magnetic field
- C Electromagnetic field
- D Static field

Answer: B

Question 33

Ravi sold goods for ₹ 6250 and made a profit of 25% in the process. What would have been his profit percent if he had sold the same goods for ₹ 6000?

- A 10%
- B 15%
- C 20%
- D 5%

Answer: C

Explanation:

Selling price = 6250 and profit % = 25

$$C.P = \frac{6250 \times 100}{125} = 5000$$

$$\text{Profit\%} = \frac{6000 - 5000}{5000} \times 100 = 20$$

Hence option 'C' is correct.

Question 34

In tissue the cells are widely spaced.

- A Tendons
- B Cartilage
- C Bone
- D Ligament

Answer: B

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Question 35

The AIADMK party is a regional political party of which state?

- A Karnataka
- B Telangana
- C Tamil Nadu
- D Andhra Pradesh

Answer: C

Question 36

Pressure \times Area = ?

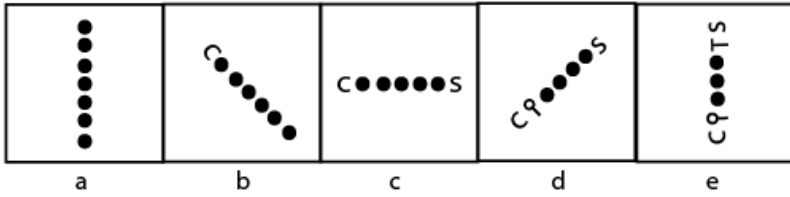
- A Thrust
- B Inertia
- C Momentum
- D Volume

Answer: A

Question 37

Study the pattern in the following series and identify which figure from the answer figures will follow next.

Problem Figure:



Answer Figures:



- A 5
- B 2
- C 3
- D 1

Answer: E

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Question 38

A hollow sphere with external and internal diameters as 24 cm and 16 cm, respectively, is melted into a cylinder with a base diameter of 32 cm. The height of the cylinder is closest to:

- A 7.33 cm
- B 5.56 cm
- C 5.16 cm
- D 6.33 cm

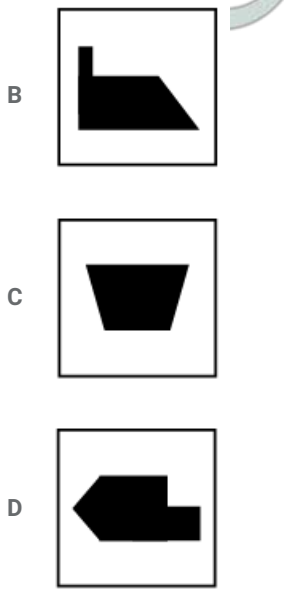
Answer: D

Question 39



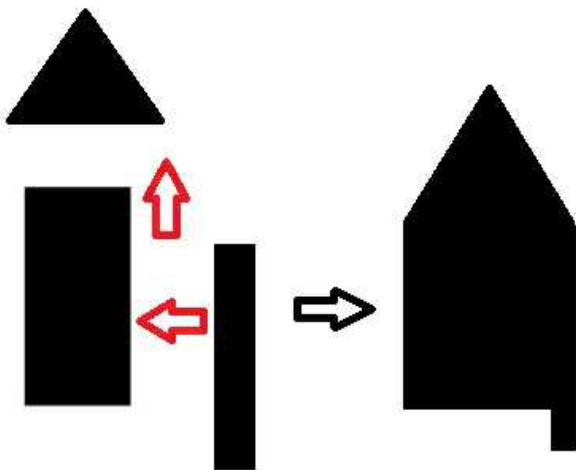
Using the above three shapes form a valid shape and identify your shape with the below options?





Answer: A

Explanation:



Here option 'A' is correct.

Question 40

Founded in 1927, Dr. Bhimrao Ambedkar University is a non-profit public higher education institution located in the urban setting of the large city of

- A Gorakhpur
- B Agra
- C Lucknow
- D Kanpur

Answer: B

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Question 41

Ratnagiri mines are found in which state?

- A Gujarat

- B Telangana
- C Maharashtra
- D Karnataka

Answer: C

Question 42

How many groups are there in the modern periodic table?

- A 9
- B 18
- C 21
- D 8

Answer: B

Question 43

The two roots of a quadratic equation are given as $x = \frac{5}{3}$ and $x = \frac{-3}{10}$. The equation can be written as:

- A $(10x - 3)(3x - 5) = 0$
- B $(10x + 3)(3x - 5) = 0$
- C $(10x + 3)(3x + 5) = 0$
- D $(10x - 3)(3x + 5) = 0$

Answer: B

Explanation:

$$(x + \frac{3}{10})(x - \frac{5}{3}) = 0$$

$$(10x+3)(3x-5)=0$$

hence option 'B' is correct.

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Question 44

Neela was sweeping the floor. When she was facing south-west, she moved the broom 90° along the floor to her right. In which direction is the broom facing with respect to its initial position?

- A North-west
- B South-west
- C North-east
- D South-east

Answer: A

Question 45

Arjit's age is 3 years more than 1.5 times the age of Heera, whose age in turn is 10 years more than $\frac{2}{3}$ the age of Deepika. If 5 times the age of Deepika is equal to 3 times the age of Arjit, what is the sum of the present ages of the trio?

- A 99 years
- B 95 years
- C 100 years
- D 97 years

Answer: C

Question 46

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

Bird : Nest :: Lion : ?

- A Hive
- B Den
- C Igloo
- D Convent

Answer: B

Explanation:

Bird lives in Nest ,

so Lion lives in Den,

hence option 'B' is correct.

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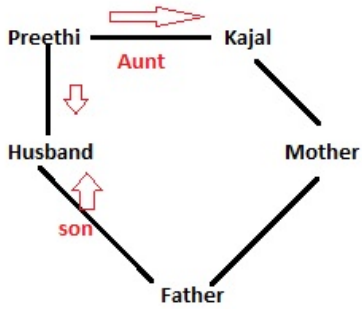
Question 47

Preethi tells Kajol, "Your mother's father's own son is my husband." How is Preethi related to Kajol?

- A Daughter
- B Cousin
- C Sister-in-law
- D Aunt

Answer: D

Explanation:



Here option 'D' is correct.

Question 48

₹ 10000, invested at 30% rate of interest per annum. but compounded every four months, will give an amount of ₹ in one year.

- A 13270
- B 13000
- C 13300
- D 13310

Answer: D

Explanation:

compounded every four months ,

so we have to multiple with 3 in time and divide by 3 in rate

so rate =10% and time 3 year,

fraction value of 10% = $\frac{1}{10}$

10	11
10	11
10	11

1000	1331
-------------	-------------

1000	-----	10000
-------------	-------	--------------

1	-----	10
----------	-------	-----------

1331	-----	13310
-------------	-------	--------------

hence option 'D' is correct

Question 49

Which of the numbers given below is NOT divisible by 4?

- A 89700
- B 76166
- C 43584
- D 74708

Answer: B

Explanation:

As we know that 4 is an even number and which is only divisible by even number.

then, we are choosing option 'B' and adding the whole number- 7+6+1+6+6= 26.

26 is NOT divisible by 4.

Here option 'A' is correct.

Question 50

A body of mass m moving with velocity 4 km/h collides with a body of mass $3 m$ at rest. Now the coalesced mass starts to move with a velocity of

- A 4 km/h
- B $\frac{4}{3} \text{ km/h}$
- C 1 km/h
- D 2 km/h

Answer: C

Question 51

The square root of which of the numbers below will be rational?

- A 16848
- B 41872
- C 49883
- D 43264

Answer: D

Explanation:

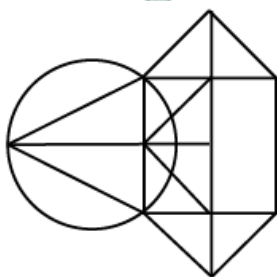
When we are choosing by option 'D'-

$$\sqrt{43264} = 208$$

Here option 'D' is correct.

Question 52

Find the number of triangles in the given figure.

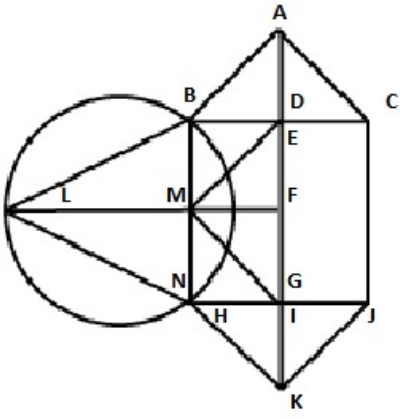


- A 14
- B 12
- C 10
- D 16

Answer: A

Explanation:

According to the question, on drawing a Venn- Diagram-



Here the possible triangle are- ABC, ABD, ADC, MGE, MGF, MFE, KJH, KJI, KIH, LNB, LMB, LNM, MNG, BNE. which is actually 14 Triangles.
Here option 'A' is correct.

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Question 53

Atomic Power Station is located at Rawatbhata, in the state of

- A Maharashtra
- B Madhya Pradesh
- C Rajasthan
- D Gujarat

Answer: C

Question 54

Which of the following numbers is a composite?

- A 263
- B 293
- C 283
- D 273

Answer: D

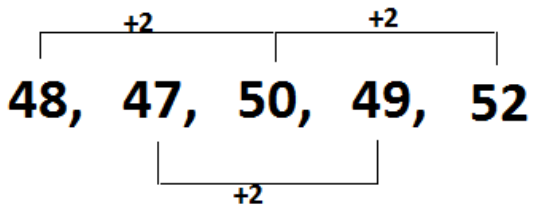
Question 55

Find the next term in the following series.
48, 47, 50, 49,

- A 52
- B 58
- C 60
- D 57

Answer: A

Explanation:



Hence option 'A' is correct.

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Question 56

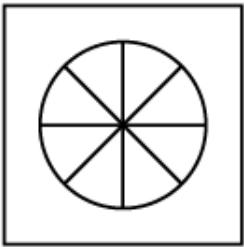
As of February 2018, the Chairman of Central Board of Film Certification is:

- A Sujit Sircar
- B Praseon Joshi
- C Swanand Kirkire
- D Pahlaj Nialani

Answer: B

Question 57

How many sectors are present in the below figure?



- A 64
- B 40
- C 48
- D 56

Answer: D

Question 58

Oxides of non-metals are usually

- A acidic
- B neutral
- C less reactive
- D basic

Answer: A

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Question 59

..... describes pollination by the agency of ants.

- A Emasculation
- B Ficus Religiosa
- C Dirmecophily
- D Myrmecophily

Answer: D

Question 60

Barkha Dutt is known for her role as which of the following?

- A Politician
- B Doctor
- C Journalist
- D Actor

Answer: C

Question 61

The process of releasing of an egg from the ovary is called

- A Fertilisation
- B Reproduction
- C Gestation
- D Ovulation

Answer: D

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Question 62

The arithmetic mean of four distinct numbers is 90. If the greatest of the four numbers is 120, what is the maximum possible value of the range of the set of four numbers?

- A 115
- B 117
- C 116
- D 118

Answer: B

Question 63

$$105 \times 2 \div (3 \times 5) - 6 = ?$$

- A -70
- B 5
- C 8
- D 35

Answer: C

Explanation:

By BODMAS rule,

$$\frac{105 \times 2}{15} - 6 = 8$$

Hence option 'C' is correct.

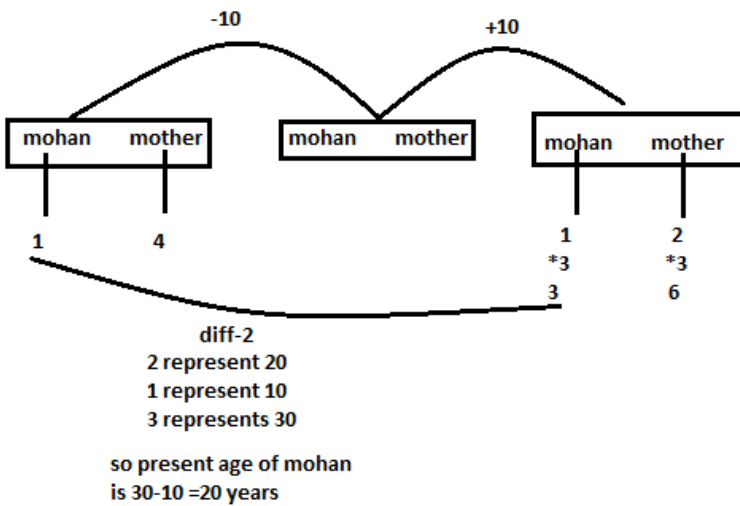
Question 64

Mohan's mother was four times as old as Mohan ten years ago. After 10 years, she will be twice as old as Mohan. How old is Mohan today?

- A 20 years
- B 15 years
- C 22 years
- D 32 years

Answer: A

Explanation:



hence option 'A' is correct.

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Question 65

A cube of 9 cm edge is immersed completely in a rectangular vessel containing water. If the base of the vessel is 12 cm × 15 cm then find the rise in the level of water when the cube is immersed?

- A 4.55 cm
- B 6.05 cm
- C 6.55 cm
- D 4.05 cm

Answer: D

Question 66

4 W X Z 8 Q P O J 6 G T M V E U H 5 3 B

If the letters in the position 8, 12, 13 and 15 from the left are picked to form a meaningful word, then the third letter of the word would be:

- A P
- B O
- C E
- D M

Answer: D

Explanation:

8, 12, 13 and 15 from the left are O, T, M and E respectively.

meaningful word is TOME which means HUMOROUS.

Third letter of world will be 'M'

Hence option 'D' is correct.

Question 67

The median of the first 25 whole numbers is:

- A 10
- B 12.5
- C 15
- D 12

Answer: D

Explanation:

Whole number = 0, 1, 2, 3, ..., 25.

median is the middle value of the increasing series, so 12 will be the median of this series

Hence option 'D' is correct.

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Question 68

Which of the following is NOT a difference between lenses and mirrors?

- A Light reflects from a mirror. Light goes through and is refracted by a lens.
- B A concave mirror converges light to a focal point. For lenses, light converges to a point for a convex lens.

- C A convex mirror converges light, as does a concave lens.
- D Lenses have two focal points, one on either side of the lens.

Answer: C

Question 69

75% of the students passed in an examination. If 2 more students had passed the examination, 80% would have been successful. How many students are there in the class?

- A 40
- B 30
- C 50
- D 32

Answer: A

Explanation:

$$5\% \rightarrow 2$$

$$1\% \rightarrow \frac{2}{5}\%$$

$$100\% \rightarrow \frac{2}{5}\% \times 100\% = 40$$

Hence option 'A' is correct.

Question 70

The Mission Olympic Cell (MOC) of the Union Ministry of Sports and Youth Affairs included the Men's team of India in the Target Olympic Podium scheme.

- A Hockey
- B Shooting
- C Football
- D Badminton

Answer: A

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Question 71

What change will occur to the pH of a solution if its Hydrogen ion concentration is increased?

- A The pH will decrease.
- B The pH will first increase and after some time, decrease.
- C The pH will remain the same.
- D The pH will increase.

Answer: A

Question 72

The square root of 19881 is:

- A 149
- B 129
- C 141
- D 131

Answer: C

Explanation:

$$\sqrt{19881} = 141$$

Hence option 'C' is correct.

Question 73

The least reactive elements of the periodic table are:

- A Transition elements
- B Inner transition elements
- C Alkali metals
- D Noble gases

Answer: D

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Question 74

Newton's second law of motion

- A is also called as law of conservation of momentum.
- B is also called as law of inertia
- C describes the relationship between the forces on two interacting objects.
- D explains about change in momentum.

Answer: D

Question 75

What is the HCF of 132 and 176?

- A 33
- B 66
- C 44
- D 22

Answer: C

Explanation:

Here factors of 132 and 176 are,

$$132 = 2 \times 2 \times 3 \times 11$$

$$176 = 2 \times 2 \times 2 \times 2 \times 11$$

for H.C.F, we have to find common factor

$$\text{H.C.F} = 2 \times 2 \times 11 = 44$$

Hence option 'C' is correct.

Question 76

Shamim had to travel 420 km in 8 hours. If he travelled at an average speed of 60 km/h and took two breaks in between, the shorter break being one-third the duration of the longer, how many minutes was the longer break for?

A 45

B 30

C 40

D 35

Answer: A

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Question 77

An athlete in the Olympic games covers a distance of 100 m in 10 s. His kinetic energy can be estimated to be in the range of:

A 200 J- 500 J

B 200000 J-500000 J

C 20000 J -50000 J

D 2000 J- 5000 J

Answer: D

Question 78

A sum of money when invested for a year at the rate of 10% interest per annum compounded half-yearly becomes ₹ 44,100 at maturity. The sum invested was

A ₹ 40000

B ₹ 40500

C ₹ 39800

D ₹ 40250

Answer: A

Explanation:

Here rate is given compounded half yearly.

we multiple with 2 in time, $t = \frac{1}{2} \times 2 = 1$ and divided by 2 in rate %, $r = \frac{10\%}{2} = 5\%$

fraction value of 5% = $\frac{1}{20}$,

now

20	21
* 20	* 21
400	441

441 — 44100
1 — 100
400 — 40000

Hence option 'A' is correct.

Question 79

Three out of the four options given below are related in a particular way. Choose the option that is different or odd from the others.

- A Jhelum
- B Betwa
- C Chambal
- D Yamuna

Answer: A

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Question 80

The has created National Highways Investment Promotion Cell (NHIPC) for attracting domestic and foreign investment for highways projects.

- A NTPC
- B SAIL
- C TRAI
- D NHAI

Answer: D

Question 81

Read the statement and decide which of the conclusions logically follows from the statement.

Statement:

This cup is filled with tea.

Conclusions:

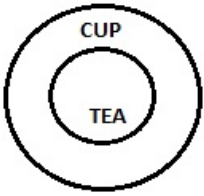
- I. The tea is too hot.
- II. The tea is sweet.

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

Answer: A

Explanation:

According to the question, On drawing the Venn diagram -



Hence option 'A' is correct.

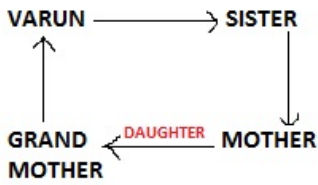
Question 82

Sravanthi is Varun's maternal grandmother. How is Varun's only sister's mother related to Sravanthi?

- A Daughter
- B Sister-in-law
- C Aunt
- D Sister

Answer: A

Explanation:

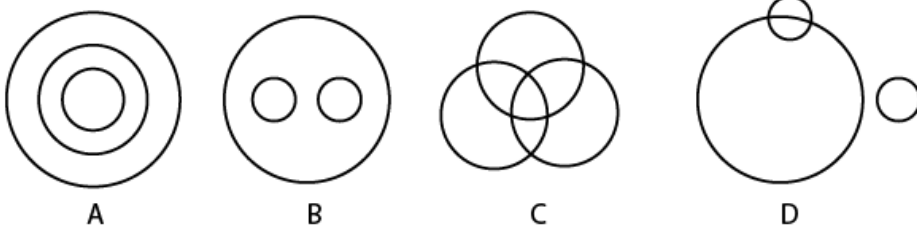


Here option 'A' is correct.

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Question 83

Which of the following Venn diagrams best illustrates the relation between the three given classes? Professor, Student, Player



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

Answer: C

Question 84

Shesh Arland Madhukar is a writer who was honoured with the Sahitya Academy Bhasha Sanunan Award in January, 2018.

- A Maithili
- B Kannada
- C Magahi
- D Sanskrit

Answer: C

Question 85

Select the option that is related to the third term in the same way as the second term is related to the first term.
STEPS : SPETS :: CLOCK :

- A KCOCL
- B KCLOC
- C KOCLC
- D KCOLC

Answer: D

Explanation:

from question ,

STEPS =SPTES (Logic is reversing the value),

so, CLOCK=KCOLC

Hence option 'D' is correct.

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Question 86

Find odd one out.

- A VI
- B 7
- C IX
- D VII

Answer: B

Explanation:

All option value are in roman except option 'B'

hence option 'B' is correct.

Question 87

Sarthak can fill a sand-pit with sand in 36 days while Vivan takes 90 days to fill it. Ali can take the entire sand of a filled sand-pit out in 60 days. If all three start working when the pit is empty, in how many days will the sand-pit be full again?

- A 45
- B 54

C 48

D 50

Answer: A

Explanation:

we can solve this by Time and Work

efficiency	day	total work
5	S---36D	180(L.C.M of 36,90,60)
2	V---90D	
3	A---60D	

now total work done by all in 1 day = $5+2+3=4$

here we subtract the work of ali because he taken out the sand,

now time taken by all to fill $\frac{\text{total work}}{\text{work done by all in a day}} = \frac{180}{4} = 45$ days

hence option 'A' is correct

Question 88

The Godavari, Krishna, Kaveri and Vaigai are flowing rivers.

A north

B east

C west

D south

Answer: B

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Question 89

The sum of a rational and an irrational number is a/an

A Rational number

B Natural number

C Irrational number

D Complex number

Answer: C

Question 90

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

Question:

Find the value of z ,

Statements:

1) $z^2 = 36 + a$

2) $a = x^2$ & $x = 8$

A Either 1 or 2 is sufficient

B Both 1 and 2 are sufficient

C Only 1 is sufficient

D Only 2 is sufficient

Answer: B

Explanation:

If we go to the statement we observe that we have 3 equations and 3 unknowns, so we need both the statements to find the value of 'z'.

or, from statement 2, $a = 8^2 = 64$. We put the value of 'a' in the equation which is in the 1st statement $z^2 = 36 + a$ and the value of 'a' is 64

hence option 'B' is correct.

Question 91

Which of the following statements is not true?

A Bacteria present in the mouth produce acids by degradation of sugar and food particles remaining in the mouth.

B When pH of the mouth is higher than 5.5, then tooth decay starts.

C Tooth enamel made of calcium phosphate is the hardest substance in the body.

D Using toothpaste, which are generally basic, helps neutralise the excess acid and prevent tooth decay.

Answer: B

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Question 92

A and B can complete a task in 70 days, B and C can complete it in 52.5 days while C and A can do the same task together in 42 days. How many days will each of A, B and C take to complete the task individually?

A 105, 210 and 70

B 56, 84 and 168

C 70, 10 and 105

D 84, 168 and 56

Answer: A

Question 93

Which of the following is NOT an equation of motion?

A $s = ut + \frac{1}{2}at^3$

B $v = u + a \times t$

C $s = ut + \frac{1}{2}at^2$

D $v^2 = u^2 + 2as$

Answer: A

Explanation:

Here only option 'A' is not the equation of motion because $s = ut + \frac{1}{2}at^2$

here s=distance

t=time

v= initial speed

u=final final speed

a=acceleration

hence option 'A' is correct.

Question 94

Which children's movie features the famous song, "The Bare Necessities"?

- A The Jungle Book
- B Rockford
- C Stanley's Tiffin Box
- D The BFG

Answer: A

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Question 95

Consider the following question and decide which of the statements is sufficient to answer the question. The simple interest on a sum of money is ₹ 100. What is the sum?

Statements:

- I. The interest rate is 20% per annum.
- II. The sum earned simple interest in 5 years.

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

Answer: A

Explanation:

We can solve this question by statement ,

we have to find sum , as we know that $\text{sum} = \frac{p \times r \times t}{100} + p$

thats why we need both the statement to solve the question

hence option 'A' is correct

Question 96

Which of the following statements is correct?

- A Two or more resistors are said to be connected in series if different current flows through them.
- B Two or more resistors are said to be connected in series if the same current flows through them.
- C Two or more resistors are said to be connected in parallel if the same current flows through them.
- D Two or more resistors are said to be connected in parallel if different current flows through them.

Answer: B

Question 97

The atomic number of the atom that becomes stable by gaining 3 electrons in 5th shell is:

- A 57
- B 51
- C 55
- D 59

Answer: B

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Question 98

Find the odd one out.

- A Quadratic Equation
- B Cubic Equation
- C Linear Equation
- D Real Numbers

Answer: D

Explanation:

option A,B,C are in polynomials in the form of $ax^n + bx^{n-1} + \dots$

but in option 'D' not a polynomial

hence option 'D' is correct

Question 99

Which of the following cup/tournament is NOT associated with Cricket?

- A Irani trophy
- B Ranji trophy
- C Begum Hazrat mahal trophy
- D Vijay Hazare trophy

Answer: C

Question 100

Raja Ravi Verma was a painter and sculptor from the state of

- A Uttar Pradesh
- B Kerala
- C Tamilnadu
- D Assam

Answer: B

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