



RRB JE 28th May 2019 Shift-2

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Instructions

For the following questions answer them individually

Question 1

Find the greatest possible measure that will measure 7 litres, 3 litres 850 ml, 12 litres 950 ml exactly.

- A 350 ml
- B 500 ml
- C 400 ml
- D 215 ml

Answer: A

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Question 2

The Prime Minister, Union Cabinet Minister, Chief Minister and Council of Ministers are all members of-

- A National Development Council
- B Planning Commission
- C Regional Council
- D Zonal Council

Answer: A

Question 3

If $x^{0.009} = 0.01$, find the value of 'x'.

- A 0.9
- B 9
- C 0.0009
- D 0.09

Answer: A

Question 4

Which celestial body does NOT twinkle in the night sky?

- A Star
- B Three middle stars in the Orion constellation
- C Planet
- D Sirius

Answer: C

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Question 5

Total surface area of a hemisphere is 504 cm^2 . What is its curved surface area?

- A 336 cm^2
- B 428 cm^2
- C 256 cm^2
- D 316 cm^2

Answer: A

Question 6

What is the ratio of potential difference 'V' applied between the ends of a conductor and the current 'I' flowing through it called?

- A Resistance
- B Charge
- C Electric potential
- D Power

Answer: A

Question 7

If the HCF of a set of numbers is 8, which one cannot be their LCM?

- A 200
- B 360
- C 150
- D 56

Answer: C

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Question 8

The primary role of carbohydrates is to to all cells in the body.

- A Promote growth
- B Supply energy
- C Maintain water balance
- D Repair of tissues

Answer: B

Question 9

For what value of 'a' will the polynomials $(ax^3 + 4x^2 + 3x - 4)$ and $(x^3 - 4x + a)$ leave the same remainder when divided by $(x - 3)$?

- A 0
- B 1
- C 2
- D -1

Answer: D

Question 10

On the bank of which of the following rivers is the Indian city Jammu located?

- A Indus
- B Chenab
- C Tawi
- D Sutlej

Answer: C

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Question 11

Read the following information carefully and answer the question given below.

Seven executives— P, Q, R, S, T, U and V are sitting along a circle facing the centre. P is between V and S. R is second to the right of S and is between Q and U. Q is not the neighbour of T.

What is the position of T?

- A Second to the left of R
- B Third to the left of P
- C Between R and V
- D To the immediate left of V

Answer: D

Question 12

In how many years will a sum increase by $33\frac{1}{3}\%$ of the principal at 5% Simple Interest per annum?

- A $\frac{2}{3}$ years
- B 30 years
- C 9 years
- D 10 years

Answer: A

Question 13

Simplify: $\sqrt{(272)^2 - (128)^2}$

- A 240
- B 204
- C 280
- D 260

Answer: A

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Question 14

P does some work in 4 hours. The same is done by P and Q together in 3 hours, Q and R together in 2 hours. Working together, how many hours will they take to do the same work?

- A $\frac{6}{7}$ hours
- B $\frac{3}{2}$ hours
- C $\frac{4}{3}$ hours
- D $\frac{5}{7}$ hours

Answer: C

Question 15

In which of the following countries did the Middle East and North Africa (MENA) World Economic Forum take place in April 2019?

- A Syria
- B Saudi Arabia
- C Egypt
- D Jordan

Answer: D

Question 16

In a show room, $\frac{1}{9}$ of the shirts were striped, $\frac{5}{8}$ of the remaining had checks and the rest were plain colored. If there were 81 plain colored shirts, what portion of the stock were checked ones ?

- A 243
- B 124
- C $\frac{7}{9}$
- D $\frac{5}{9}$

Answer: D

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Question 17

Which of the following is NOT a periodic property in the periodic table?

- A Radioactivity
- B Electronegativity
- C Valency
- D Atomic size

Answer: A

Question 18

Polishing a surface is done for what purpose?

- A To minimise the irregularities and to make it smooth
- B To provide better grip
- C To make it rough
- D To increase the friction

Answer: A

Question 19

Venkatesh sold a piece of land for Rs.1200000. He gave one-third of the selling price to his wife, and $\frac{2}{5}$ of the rest he invested in his son's business, and $\frac{1}{6}$ of the rest he gave as donation for the culture activity of a school. What amount did he give as donation?

- A Rs.120000
- B Rs.80000
- C Rs.320000
- D Rs.400000

Answer: B

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Question 20

If $x = (\sqrt{2} + 1)^{-\frac{1}{3}}$, then find the value of $x^3 - \frac{1}{x^3}$.

- A $\sqrt{3}$
- B -2
- C 0

D 2

Answer: B

Question 21

Dandi March is associated with

A Wheat

B Rice

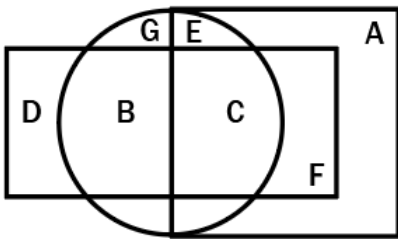
C Salt

D Sugar

Answer: C

Question 22

In the given figure, the circle represents soldiers, rectangle represents professors, and square represents painters. Which region represents the persons who are professors and painters but not soldiers?



A E

B B

C C

D F

Answer: D

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Question 23

International Economic Research Annual (IERA) Award was instituted by-

A ECGC

B RBI

C EXIM bank

D SEBI

Answer: C

Question 24

Which among the following is NOT an identity?

A $\sin 2\theta = 2 \sin \theta \cos \theta$

B $\sin^2 \theta - \cos^2 \theta = 0$

C $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$

D $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$

Answer: B

Question 25

Which of the following gases is produced when an acid reacts with metal carbonate or metal hydrogen carbonate?

A Hydrogen

B Carbon dioxide

C Oxygen

D Nitrogen

Answer: B

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Question 26

Basha walked towards south and then turned left. Again he turned left and turned right. How many times did he turn toward east?

A Three times

B One time

C Four times

D Two times

Answer: D

Question 27

If $\sin 2A = 2 \sin^2 A$, then find the value of 'A' ($A \neq 0$ and A is acute).

A 30°

B 45°

C 60°

D 90°

Answer: B

Question 28

Which of the following is a seedless fruit?

A Guava

B Banana

C Water Melon

D Mango

Answer: B

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Question 29

Evaluate: $\left(\frac{\tan 20^\circ}{\operatorname{cosec} 70^\circ}\right)^2 + \left(\frac{\cot 20^\circ}{\sec 70^\circ}\right)^2 + (2 \tan 15^\circ \tan 75^\circ)$

A 3

B $\frac{1}{2}$

C $\frac{\sqrt{3}}{2}$

D 1

Answer: A

Question 30

The first match of the first edition of Ranji Trophy was held in the year-

A 1970

B 1956

C 1952

D 1934

Answer: D

Question 31

Which of the following is NOT a function of our teeth?

A Swallowing

B Chewing

C Biting

D Cutting

Answer: A

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Question 32

The difference between the length and breadth of a rectangle is 23 m. If its perimeter is 206 m, then find its area.

A 1520 m^2

B 2420 m^2

C 2520 m^2

D $2480 m^2$

Answer: C

Question 33

If $\sqrt{15} = 3.87$, then find the value of $\frac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$.

A 4.87

B 7.87

C 6.87

D 5.87

Answer: B

Question 34

Who won the 'Laureus 2017 Sports man of the Year' award ?

A Michael Phelps

B Cristiano Ronaldo

C Roger Federer

D Usain Bolt

Answer: D

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Question 35

In a certain code, 'HUMIDITY' is written as 'UHMIIDTY'. How is 'POLITICS' written in that code?

A POILTISC

B OPLITISC

C OPLIITCS

D OPILITCS

Answer: C

Question 36

Complete the series.

0.5, 0.55, 0.65, 0.8, (...)

A 0.85

B 1

C 0.9

D 0.95

Answer: B

Question 37

Relative atomic mass of an element is _____ of the mass of one of carbon-12 atom.

- A 1/5
- B 1/20
- C 1/12
- D 1/10

Answer: C

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Question 38

Suresh invested a sum of money at Compound interest. It amounted to Rs. 2420 in 2 years and Rs. 2662 in 3 years. Find the rate per cent per annum.

- A 14%
- B 5%
- C 10%
- D 12%

Answer: C

Question 39

What type of nuclear reaction is responsible for liberation of energy in the sun?

- A Nuclear fission
- B Nuclear fusion
- C Nuclear destruction
- D Nuclear generation

Answer: B

Question 40

In which country was 'acupuncture' first devised?

- A Japan
- B Sri Lanka
- C India
- D China

Answer: D

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Question 41

Which is the first permanent research base station of India in Antarctica?

- A Maitri
- B Dakshin Gangotri
- C Bharat
- D Agni

Answer: B

Question 42

According to Thomson's model, atom as a whole is-

- A Heavy
- B Positively charged
- C Electrically neutral
- D Negatively charged

Answer: C

Question 43

Working together for two days P and Q get paid by Rs.1200 and Rs.400 respectively for the completion of a job. How many days will Q take to finish the job if he worked alone?

- A 8
- B 10
- C 4
- D 6

Answer: A

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Question 44

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) Madhan sings beautifully.
- 2) Madhan is an Italian.

Conclusions:

- I. Italians sing beautifully.
- II. All who sing well are Italians.

- A Both conclusions I and II follow
- B Only conclusion I follows

C Neither conclusion I nor II follows

D Only conclusion II follows

Answer: C

Explanation:

Statements:

1) Madhan sings beautifully.

2) Madhan is an Italian.

Conclusions:

I. Italians sing beautifully.

II. All who sing well are Italians.

It is not necessary that all italians will sing beautifully and It is also not necessary that all who sing well must be italians.

Neither conclusion I nor II follows

Question 45

Which of the following options will best complete the relationship given below?

13(4624)33

15(5735)42

11(????)37

A 4382

B 4832

C 3482

D 4823

Answer: B

Explanation:

13(4624)33

15(5735)42

11(????)37

13(4624)33

here $13 + 33 = 46$ and $4 \times 6 = 24$

similarly

15(5735)42

here $15 + 42 = 57$ and $5 \times 7 = 35$

so

11(????)37

here $11 + 37 = 48$ and $4 \times 8 = 32$

= 4832

Question 46

Which of the following laws or principle says that "when a body is immersed fully or partially in a fluid, it experiences an upward force that is equal to the weight of the fluid displaced by it"?

A Archimedes principle

B Kepler's Law

C Pascal's Law

D Newton's law

Answer: A

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Question 47

Find the wrong number in the given series.

9, 27, 108, 541, 3240

A 27

B 108

C 9

D 541

Answer: D

Explanation:

9, 27, 108, 541, 3240

$$9 \times 3 = 27$$

$$27 \times 4 = 108$$

$$108 \times 5 = 540$$

$$540 \times 6 = 3240$$

so wrong term is 540

Question 48

Anil walked 50 m towards east direction and he took left turn and walked 20 m. Again he turned left and walked 20 m. Which direction is he from the starting point?

A North east

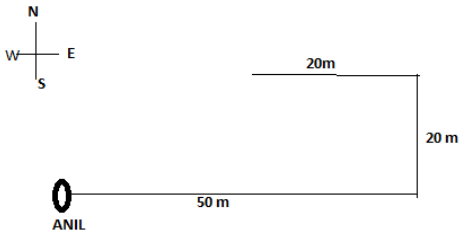
B South west

C South east

D North west

Answer: A

Explanation:



He is in North east direction from the starting point

Question 49

The average age of a family of five members is 26. If the youngest member of the family is now ten years, what was the average of the family one year before the youngest member was born?

- A 16 years
- B 18 years
- C 19 years
- D 20 years

Answer: C

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Question 50

Pantothenic acid is commonly called-

- A Vitamin E
- B Vitamin B5
- C Vitamin C
- D Vitamin B12

Answer: B

Question 51

When energy consumed by one electrical bulb is 0.4 kilowatt-hours, what is the energy consumed by 5 such bulbs?

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

Answer: B

Explanation:

energy consumed by one electrical bulb = 0.4 kilowatt-hours

energy consumed by five electrical bulb = 0.4×5

$$= 2 \text{ kWh}$$

Question 52

In a certain code, 679 means 'how are you'; 147 means 'how is life' and 569 means 'you are wonderful'. Which numeral in that language means 'you'?

- A 7
- B 1
- C 5 or 7
- D 6 or 9

Answer: D

Explanation:

679 means 'how are you'

147 means 'how is life'

569 means 'you are wonderful'

here

679 means 'how are you'

147 means 'how is life'

in the above two sentence 'how ' is common which means 7

679 means 'how are you'

569 means 'you are wonderful'

in the above two sentence 'are you' is common which means 6 or 9

so,

'you' means 6 or 9

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Question 53

The phenomenon of change of a liquid into vapours at any temperature below its boiling point is called-

- A Boiling
- B Condensation
- C Melting
- D Evaporation

Answer: D

Question 54

Express 150% as a fraction.

- A $\frac{2}{3}$
- B $\frac{3}{20}$
- C $\frac{3}{2}$
- D $\frac{3}{5}$

Answer: C

Explanation:

$$\frac{150}{100}$$

$$\frac{15}{10}$$

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

Question 55

Which device converts electrical signals to sound?

- A Microphone
- B Wireless microphone
- C Loud speaker
- D Amplifier

Answer: C

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Question 56

Of three numbers A , B and C, B = 2A = 3C. Their average is 44. What is the smallest of these numbers ?

- A 72
- B 28
- C 36
- D 24

Answer: D

Explanation:

$$B = 2A = 3C \text{ . let } A = X$$

$$X + 2X + 2X/3 = 132$$

$$\frac{(3X+6X+2X)}{3} = 132$$

$$\frac{11X}{3} = 132$$

$$11X = 132 \times 3 = 396$$

$$X = 396 \div 11 = 36$$

Therefore the numbers are

$$X = 36$$

$2X=72$ and

smallest no = $\frac{2X}{3} = 24$

Question 57

What is the theme of 'International Day of Happiness', 2019?

- A Think equal, build smart, innovate for change
- B Healthy sleep, healthy aging
- C Act to change laws that discriminate
- D Happier together

Answer: D

Question 58

Which of the following is used in the manufacture of cement?

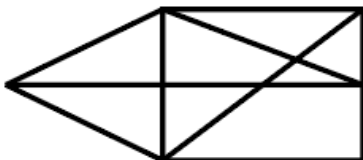
- A Iron
- B Calcium oxide
- C Copper
- D Sodium carbonate

Answer: B

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Question 59

How many triangles are there in the given figure?



- A 12
- B 13
- C 15
- D 18

Answer: C

Question 60

Complete the Series.

AB, DE, HI, MN, (...)

- A DE
- B ST

C SY

D CD

Answer: B

Explanation:

AB, DE, HI, MN, (...)

after AB one letter is skipped then DE

after DE two letters are skipped then HI

after HI three letters are skipped then MI

after MN four letters are skipped then ST

Question 61

If $A : B = 2 : 3$ and $B : C = 3 : 4$, then find $A : B : C$.

A 6 : 9 : 10

B 2 : 3 : 4

C 6 : 3 : 10

D 2 : 4 : 9

Answer: B

Explanation:

$A : B = 2 : 3$ and $B : C = 3 : 4$

given

$A = 2$

$B = 3$

$C = 4$

$A : B : C = 2 : 3 : 4$

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Question 62

Deficiency of _____ causes night blindness.

A Vitamin B

B Vitamin A

C Vitamin C

D Vitamin D

Answer: B

Question 63

What causes cholera?

A Algae

B Virus

C Bacteria

D Fungus

Answer: C

Question 64

Which of the following will best complete the relationship given below?

DFH : IKM :: OQS : ?

A XTV

B TVX

C UVW

D XVT

Answer: B

Explanation:

DFH : IKM :: OQS : ?

after D one letter is skipped that is E then F comes

after F one letter is skipped that is G then H comes

after H immediate letter comes which is I

after I one letter is skipped that is J then K comes

after K one letter is skipped that is L then M comes

similarly for OQS

after O one letter is skipped that is P then Q comes

after Q one letter is skipped that is R then S comes

after T one letter is skipped that is U then V comes

after V one letter is skipped that is W then X comes

after X one letter is skipped that is Y then Z comes

so TVX

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Question 65

In this question, a statement is given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statement:

Industrial revolution which first started in Europe has brought about modern age.

Conclusions:

I. Disparity between rich and poor results in revolution.

II. Revolution overhauls society.

A Only conclusion II follows

B Either conclusion I or II follows

C Only conclusion I follows

D Neither conclusion I nor II follows

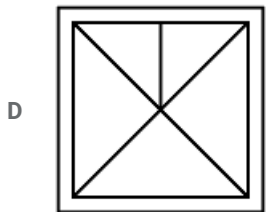
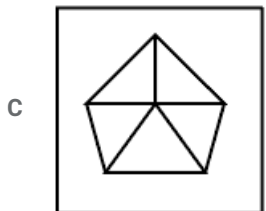
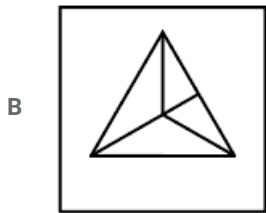
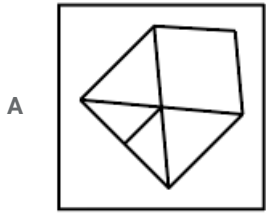
Answer: A

Explanation:

Conclusion 1 follows the statement as the Revolution brought the modern age which is difference in rich and poor

Question 66

Find the ODD one out from the given options.



Answer: B

Question 67

Who among the following holds the record for scoring most goals in FIFA World Cup history?

- A Gerd Mueller
- B Just Fontaine
- C Cristiano Ronaldo
- D Miroslav Klose

Answer: D

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Question 68

If 'CORRECTION' is coded as 'DPSSFUDUJPO', how would 'EMOTION' be coded?

- A FNPUPJ
- B FNPUJPO
- C FPNUJPO
- D FNPUJOP

Answer: B

Explanation:

'CORRECTION' is coded as 'DPSSFUDUJPO'

In Alphabetical series

after C D comes

after O P comes

after R S comes

after R S comes

after E F comes

after C D comes

after T U comes

after I J comes

after O P comes

after N O comes

similarly for emotion

after E F comes

after M N comes

after O P comes

after T U comes

after I J comes

after O P comes

after N O comes

FNPUJPO

Question 69

Which is the most common material used exclusively for filament of electric lamps?

- A Constantan
- B Silver
- C Tungsten
- D Aluminium

Answer: C

Question 70

Complete the series.

BJ, CL, FO, KS, (...)

- A RX

- B OT
- C EX
- D UX

Answer: A

Explanation:

BJ, CL, FO, KS, (...)

First letter of words

After B zero word skip then C

After C two word skip then F

After F four word skip then K

After K six word skip then R

second letter of words

after J one letter is skipped then L

after L two letter is skipped then O

after O three letter is skipped then S

after S four letter is skipped then X

so new term RX

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Question 71

Which of the following rivers is known as the 'Dakshina Ganga?'

- A Mahanadi
- B Cauvery
- C Godavari
- D Krishna

Answer: C

Question 72

A sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns the pH paper yellowish-orange. Which of the following would change the colour of this pH paper to greenish-blue?

- A An antacid
- B Common salt
- C Lemon juice
- D Vinegar

Answer: A

Question 73

Which of the following statements is NOT correct?

- A Graphite is black and soft
- B Graphite is made up of carbon only
- C Graphite does not conduct electricity
- D Graphite burns on strong heating to give carbon dioxide

Answer: C

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Question 74

The net power of the number of lenses in an optical instrument is the of the individual powers of lenses.

- A Sum of squares
- B Product
- C Algebraic sum
- D Product of squares

Answer: C

Question 75

Meena is 15 years elder to Reena. 15 years back she was thrice as old as Reena. What is Reena's present age?

- A 27 years
- B 27.5 years
- C 22.5 years
- D 15 years

Answer: C

Explanation:

Meena is 15 years elder to Reena. 15 years back she was thrice as old as Reena. What is Reena's present age?

$$Meena = Reena + 15 \quad (1)$$

15 yrs ago

$$(Meena - 15) = 3(Reena - 15) \quad (2)$$

put (1) in (2) we get,

$$((Reena + 15) - 15) = 3(Reena - 15)$$

$$2Reena = 45$$

$$Reena = 22.5 \text{ years}$$

Question 76

A vessel contains some amount of pure milk. 8 litres of water is added to dilute the milk, after taking out 8 litres of pure milk. Once again 8 litres of the resulting mixture is removed and 8 litres of water is added. The amount of pure milk in the second mixture is 49 litres. What amount of pure milk was in the container originally ?

- A 80 litres

- B 100 litres
- C 64 litres
- D 72 litres

Answer: C

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Question 77

Which of these is a wind instrument?

- A Flute
- B Ektara
- C Sarod
- D Santoor

Answer: A

Question 78

_____ is the conceptual luxury space hotel in low earth orbit by Orion Span.

- A Elon Musk Space Station
- B Aurora Space Station
- C Tiangong
- D NASA

Answer: B

Question 79

Which of these devices is used to study the activity of brain?

- A Autoanalyser
- B ECG
- C EEG
- D Dialyser

Answer: C

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Question 80

Which of the following is an ionic compound ?

- A HCl

- B NaCl
- C NH_3
- D CCl_4

Answer: B

Question 81

Find the wrong number in the given series.

7, 8, 12, 21, 37, 61, 98

- A 61
- B 37
- C 12
- D 7

Answer: A

Explanation:

7, 8, 12, 21, 37, 61, 98

here the difference is squares of the no.

$$8 - 7 = 1^2 = 1$$

$$12 - 8 = 2^2 = 4$$

$$21 - 12 = 3^2 = 9$$

$$37 - 21 = 4^2 = 16$$

$$61 - 37 = 5^2 = 25$$

$$98 - 61 = 6^2 = 36$$

so wrong term is 61

Question 82

Name the former Lok Sabha Speaker and the ten-time MP of the Lok Sabha who passed away in 2018.

- A M. Karunanidhi
- B Jyoti Basu
- C Huluvadi G. Ramesh
- D Somnath Chatterjee

Answer: D

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Question 83

Complete the series.

2, 5, 10, 17, 26, (...)

- A 34
- B 35
- C 33
- D 37

Answer: D

Explanation:

2, 5, 10, 17, 26, (...)

$$2 + 3 = 5$$

$$5 + 5 = 10$$

$$10 + 7 = 17$$

$$17 + 9 = 26$$

so

$$26 + 11 = 37$$

Question 84

A person paid a bill of Rs.25 that included 30 paise as sales tax at the rate of 6% on taxable items. What was the cost of the tax free items?

- A Rs.20
- B Rs.19.70
- C Rs.15
- D Rs.18

Answer: B

Explanation:

Total cost of the items he purchased = Rs.25

Given that out of this Rs.25, 30 Paise is given as tax

$$= \text{Total tax} = 30 \text{ Paise}$$

$$\text{Total tax incurred} = 30 \text{ Paise} = \frac{30}{100} = \text{Rs. } 0.30$$

let the cost of the tax free items = x

given tax rate = 6%

$$\frac{30}{100} = \frac{60}{100} = \frac{30}{100}$$

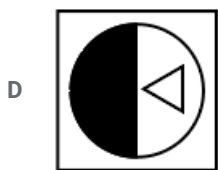
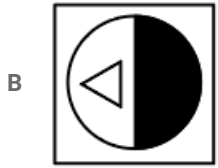
$$= 6(25 - 0.3 - x) = 30$$

$$= (25 - 0.3 - x) = 5$$

$$x = 25 - 0.3 - 5 = 19.7$$

Question 85

Find the ODD one out from the given options.



Answer: D

Explanation:

here in all the three fig the base of small triangle is in side of shaded part of circle except fourth fig

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Question 86

Read the following information carefully and answer the question given below.

Eight captains of different hockey teams— Canada, Czech Republic, Finland, Russia, Sweden, United states, Europe and North America are sitting around a circular table and are facing the center, but not necessarily in the same order. Finland captain sits third to the left of the Sweden captain. Only two people sit between the Canada captain and Europe captain. Neither the Canada captain nor Europe captain is an immediate neighbour of the Finland captain. The captain of North America sits second to the right of the United states captain. United states captain is not an immediate neighbour of the Finland captain. The Canada captain sits third to the left of the Finland captain. Captains of Russia and Czech Republic are not immediate neighbours. Russia captain sits third to the left of the United states captain.

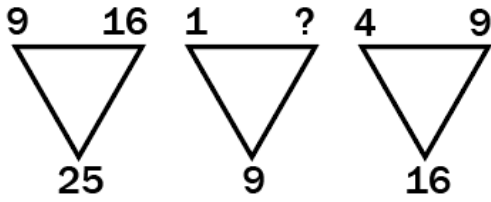
Who among the following captains is sitting between the captain of Canada and Sweden ?

- A Finland
- B United states
- C Europe
- D North America

Answer: B

Question 87

Choose the alternative that best replaces the question mark(?) in the given figure.



A 6

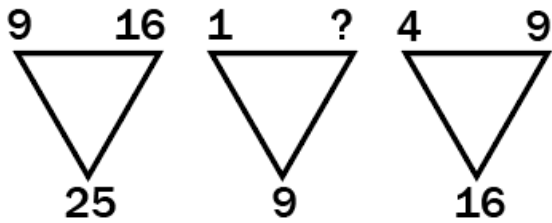
B 2

C 4

D 8

Answer: C

Explanation:



in first fig

all are the squares of 3,4,5

similarly

in third fig

all are the squares of 2,3,4

similarly

in second fig

all are the squares of 1,2,3

so ans is $2^2 = 4$

Question 88

Carbon compounds have low melting and boiling points because of the nature.

A Metallic

B Ionic

C Covalent

D Coordinate

Answer: C

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Question 89

From which part of the plant is tea obtained ?

- A Roots
- B Stem
- C Seeds
- D Leaves

Answer: D

Question 90

Which number will best complete the relationship given below?

4 : 20 :: 5 : ?

- A 37
- B 42
- C 35
- D 30

Answer: D

Explanation:

4 : 20 :: 5 : ?

here after 4 , 5 comes which means $4 \times 5 = 20$

similarly

after 5 , 6 comes which means $5 \times 6 = 30$

Question 91

P starts from X towards Y, 5 km apart at 9 AM at a speed of 5 km/h. Q starts from X at 9.45 AM at a speed of 10 km/h. After reaching Y, P starts back towards X. Likewise, Q reaches Y and returns. When do they meet?

- A 10:10 AM
- B 10:12 AM
- C 10:15 AM
- D 10:20 AM

Answer: A

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Question 92

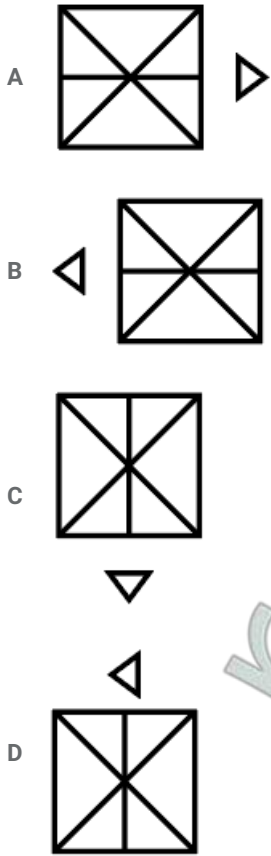
What is the marked price of an article if there is a profit of Rs.7500 while selling at 10% discount with profit of 20% ?

- A Rs.40000
- B Rs.45000
- C Rs.36000
- D Rs.50000

Answer: D

Question 93

Find the ODD one out from the given options.



Answer: D

Explanation:

IN all the first three fig , the line passes between the triangles are parallel to the base of small triangle except for fourth fig

Question 94

A train 120 m long passesa pole in 12 seconds. What is its speed?

- A 42.5 km/h
- B 36 km/h
- C 35 km/h
- D 48 km/h

Answer: B

Explanation:

$$\begin{aligned} \text{Speed} &= \text{distance} \div \text{time} \\ &= 120\text{m} \div 12\text{sec} \\ &= 10\text{m/s} \end{aligned}$$

change into km/hr by mul it by $\frac{18}{5}$

$$10 \frac{18}{5}$$

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Question 95

In this question, two statements are given followed by two conclusions. Choose the conclusion(s) which best fit(s) logically.

Statements:

- 1) Some ants are parrots.
- 2) All apples are parrots.

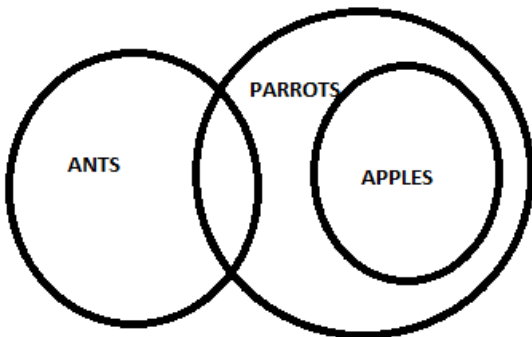
Conclusions:

- I. Some parrots are apples.
- II. Some apples are ants.

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

Answer: B

Explanation:



- I. Some parrots are apples.

All apples are parrots so some parrots are also apple

- II. Some apples are ants.

No, there is no connection between Apples and Ants only ants and parrots has connection so, Only conclusion I follows

Question 96

Islets of Langerhans is found in-

- A Pituitary

B Pancreas

C Spleen

D Liver

Answer: B

Question 97

The potential difference across a $3\ \Omega$ resistor is 6 Volts. What is the current flowing in the resistor?

A 6 Ampere

B $\frac{1}{2}$ Ampere

C 1 Ampere

D 2 Ampere

Answer: D

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Question 98

A machine bought for Rs.28000 is sold at a loss of 30%. What is the selling price?

A Rs.19600

B Rs.21000

C Rs.21600

D Rs.20600

Answer: A

Explanation:

30% = loss%

loss

$$= \frac{30}{100} 28000$$

$$= 8400$$

$$\text{c.p} = 28000$$

Selling price will be ,

$$\text{Cost price} - \text{loss} = 28000 - 8400$$

$$\text{Rs } 19600$$

Question 99

India's first National Centre for Marine Bio-diversity (NCMB) is located in-

A Puducherry

B Bhav Nagar

C Jamnagar

D Mumbai

Answer: C

Question 100

If the diagonal of a cube is $\sqrt{12}$ cm, then find its volume.

A 24 cm^3

B 10 cm^3

C 16 cm^3

D 8 cm^3

Answer: D

Explanation:

diagonal of a cube = $\sqrt{12}$ cm

$\sqrt{3} \text{side} = \sqrt{12}$ cm

side = $\frac{\sqrt{12}}{\sqrt{3}}$

= 2 cm

vol = $\text{side}^3 = 2^3 = 8 \text{ cm}^3$

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