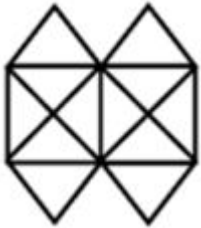- Question No. 1

How many triangles are there in the given figure?

Options :

1. 24
2. 12
3. 16
4. 20
5.

Answer : 20

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

- Question No. 2

Statement:

Candidates should be young, energetic and dynamic in the age group of 27 to 32 years.

Conclusions:

I. Persons below 27 years are not energetic.

II. Persons above 32 years are not young.

Options :

1. Only conclusion I follows

2. Neither conclusion I nor II follows

3. Only conclusion II follows

4. Both conclusions I and II follow

5.

Answer : Neither conclusion I nor II follows

- Question No. 3

If 'ROPE' is coded as 6821 and 'CHAIR' is coded as 73456, then what will be the code for 'CRAPE'?

Options :

1. 77246

2. 76421

3. 77123

4. 73456

5.

Answer : 76421

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

- Question No. 4

Statement:

This world is neither good nor evil; each man manufactures a world for himself.

Conclusions:

I. Some people find this world good.

II. Some people find this world bad.

Options :

1. Both conclusions I and II follow

2. Only conclusion I follows

3. Either conclusion I or II follows

4. Only conclusion II follows

5.

Answer : Both conclusions I and II follow

- Question No. 5

Simplify: 0.004 × 0.5

Options :

1. 0.02

2. 2

3. 0.2

4. 0.002

5.

Answer : 0.002

- Question No. 6

Repetition of sound produced by reflection of sound waves is called-

Options :

1. Noise

2. Note

3. Double

4. Echo

5.

Answer : Echo

- Question No. 7

The base of a right pyramid is a square with diagonal 16 units. Its slant edge is 17 units. What is its vertical height?

Options :

1. 12

2. 15

3. 30

4. 25

5.

Answer : 15

- Question No. 8

The study of relationship of animals with their environment is called-

Options :

1. Ecology

2. Ethology

3. Climatology

4. Entomology

5.

Answer : Ecology

- Question No. 9

When copper sulphate solution reacts with iron metal, copper metal is formed. Which of the following reactions is this?

Options :

1. Decomposition reaction

2. Combination reaction

3. Single displacement reaction

4. Double displacement reaction

5.

Answer : Single displacement reaction

- Question No. 10

Rustom-2 is a/an _____ developed by India's Defence Research and Development Organisation (DRDO).

Options :

1. Air-to-Air missile

2. Light weight vehicle

3. Unmanned Combat Aerial Vehicle

4. Anti-missile tank

5.

Answer : Unmanned Combat Aerial Vehicle

- Question No. 11

The Sun and the stars glow because of the presence of _____ in them.

Options :

1. Gases

2. Plasma

3. Light energy

4. Electricity

5.

Answer : Plasma

- Question No. 12

What did Archimedes determine after discovering the Archimedes principle?

Options :

1. Purity of milk

2. Purity of gold in the king's crown

3. Design concept of ship

4. Design concept of submarine

5.

Answer : Purity of gold in the king's crown

- Question No. 13

In which of the following cities has ISRO launched Human Space Flight Centre in 2019?

Options :

1. Bengaluru

2. Chennai

3. Mumbai

4. Hyderabad

5.

Answer : Bengaluru

- Question No. 14

Find the missing group of alphabets in the following series.

VA, ND, (...), DP, BY

Options :

1. TU

2. SE

3. HI

4. NR

5.

Answer : HI

- Question No. 15

Amindivi and Minicoy are parts of which Indian Union Territory?

Options :

1. Lakshadweep

2. Daman and Diu

3. Andaman and Nicobar

4. Chandigarh

5.

Answer : Lakshadweep

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

Eight friends—A, B, C, D, E, F, G and H are sitting around a circular table for a meeting facing center. A is second to the right of G who is third to the right of B. D is second to the left of F who sits between G and A. C is not a neighbour of B or E.

- Question No. 16

Who is to the immediate left of B?

Options :

1. H
2. D
3. E
4. C
5.

Answer : H

- Question No. 17

In which city was the 10th Biennial International Exhibition and Conference "India Chem 2018" held?

Options :

1. Kolkata

2. Delhi

3. Chennai

4. Mumbai

5.

Answer : Mumbai

- Question No. 18

Which of the following is used in alcoholic drinks?

Options :

1. Methanol

2. Ethanol

3. Propanol

4. Butanol

5.

Answer : Ethanol

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

- Question No. 19

Statements:

1) All flowers are candles.

2) No candle is lantern.

Conclusions:

I. No flower is lantern.

II. All candles are flowers.

Options :

1. Only conclusion I follows

2. Neither conclusion I nor II follows

3. Only conclusion II follows

4. Both conclusions I and II follow

5.

Answer : Only conclusion I follows

- Question No. 20

Which of the following taxes was levied, collected and retained by the Central Government?

Options :

1. Land revenues

2. Corporate tax

3. Taxes on agriculture income

4. Entertainment tax

5.

Answer : Corporate tax

- Question No. 21

What is the atomicity of Helium?

Options :

1. Mono atomic

2. Polyatomic

3. Di atomic

4. Tri atomic

5.

Answer : Mono atomic

- Question No. 22

Two identical items are sold for Rs.200 each, with 10% gain on one but 10% loss on the other. What is the net percentage loss or gain?

Options :

1. 1% gain

2. 2% gain

3. 2% loss

4. 1% loss

5.

Answer : 1% loss

- Question No. 23

In a survey conducted in a locality, it was found that 50% read newspaper A, 40% read newspaper B, and 20% read neither A nor B. If the number of persons who read both A and B is 500, then how many persons were surveyed?

Options :

1. 7000

2. 3000

3. 4500

4. 5000

5.

Answer : 5000

- Question No. 24

Which of the following is the time taken for one complete oscillation of a sound wave in the density of the medium?

Options :

1. Amplitude

2. Wavelength

3. Frequency

4. Time period

5.

Answer : Time period

- Question No. 25

Atomic number of an element is equal to the number of _____ in the nucleus.

Options :

1. Electrons and protons

2. Neutrons

3. Electron

4. Protons

5.

Answer : Protons

- Question No. 26

If a sum becomes 4 times in 20 years what is the rate of simple interest given?

Options :

1. 15%

2. 20%

3. 13(1/3)%

4. 10%

5.

Answer : 15%

- Question No. 27

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

FDA : MKH :: QOL : ?

Options :

1. XSV
2. SVX
3. QUZ
4. XVS
5.

Answer : XVS

- Question No. 28

Who was the first Indian footballer to receive the Arjuna Award?

Options :

1. P.K. Bannerjee
2. Tulsidas Balaram
3. Sailen Manna
4. Jarnail Singh
5.

Answer : P.K. Bannerjee

- Question No. 29

How many 3 digit numbers are divisible by 3?

Options :

1. 98

2. 300

3. 97

4. 99

5.

Answer : 300

- Question No. 30

Gas leaked during Bhopal tragedy was

Options :

1. Ethyl isothiocyanate

2. Potassium isothiocyanate

3. Methyl isocyanate

4. Sodium isothiocyanate

5.

Answer : Methyl isocyanate

- Question No. 31

Raja Ravi Varma was famous in the field of-

Options :

1. Dance

2. Literature

3. Music

4. Painting

5.

Answer : Painting

- Question No. 32

What is the medico-legal name given to the dissection and study of a dead human body?

Options :

1. Causa medico

2. Analysis

3. Autolepsy

4. Autopsy

5.

Answer : Autopsy

- Question No. 33

Complete the series.

0.7, 0.75, 0.85, 1, (...)

Options :

1. 1.2

2. 1.6

3. 1.8

4. 1.1

5.

Answer : 1.2

- Question No. 34

Which of the following metals is the lightest in the periodic table of elements?

Options :

1. Aluminium

2. Lithium

3. Titanium

4. Magnesium

5.

Answer : Lithium

- Question No. 35

If $x - \dfrac{1}{x} = 3$, then find the value of $x^4 + \dfrac{1}{x^4}$.

Options :

1. 123

2. 129

3. 119

4. 14

5.

Answer : 119

- Question No. 36

Choose the correct order of signs from the options so as to make the equation correct.

18 − 5 × 50 = 40

Options :

1. −, x, =

2. ×, =, −

3. =, −, ×

4. ×, −, =

5.

Answer : ×, −, =

- Question No. 37

  The Fiber Grid internet system was introduced by which Chief Minister in India?

  Options :

  1. Manohar Parrikar

  2. Raman Singh

  3. Chandrababu Naidu

  4. Arvind Kejriwal

  5.

  Answer : Chandrababu Naidu

- Question No. 38

  Which was India's first National Park?

  Options :

  1. Jim Corbett National Park

  2. Kanha National Park

  3. Kaziranga National Park

  4. Gir National Park

  5.

  Answer : Jim Corbett National Park

- Question No. 39

  Where is the pituitary gland located in the human body?

  Options :

  1. On the top of kidneys

  2. In the intestine

  3. Near the spleen

4. At the base of the brain

5.

Answer : At the base of the brain

- Question No. 40

Volume of material used in constructing a hollow cylinder of height 24 cm and thickness 1 cm is 96π. What is the sum of the internal and external radii?

Options :

1. 7 cm

2. 5 cm

3. 4 cm

4. 3 cm

5.

Answer : 4 cm

- Question No. 41

Find the ODD one out from the given options.

Options :

1. OQS

2. WYZ

3. PRT

4. HJL

5.

Answer : WYZ

- Question No. 42

Which 1 hormone regulates the amount of sugar in human blood?

Options :

1. Estrogen

2. Testoterone

3. Parathormone

4. Insulin

5.

Answer : Insulin

- Question No. 43

$x + 5x - 2x - 24$ has a zero at x = 6. Find the other zeros.

Options :

1. 6
2. 5
3. 3
4. 4
5.

Answer : 6

- Question No. 44

If tan ☐ = 1/2, tan ☐ = 1/3, then find ☐ + ☐

Options :

1. 0°

2. 45°

3. 90°

4. 135°

5.

Answer : 45°

- Question No. 45

Who was the first person to observe 'Individual Satyagraha'?

Options :

  1. Mahatma Gandhi

  2. Govind Ballabh Pant

  3. Sardar Vallabhbhai Patel

  4. Vinoba Bhave

  5.

Answer : Vinoba Bhave

- Question No. 46

Which of the following can be used for biological control of mosquitoes?

Options :

  1. Oil

  2. Ointments

  3. Gambusia

  4. D. D. T

  5.

Answer : Gambusia

- Question No. 47

What is the area of a regular hexagon of side 6 cm?

Options :

  1. $108 \sqrt{3}$ cm²

  2. $64 \sqrt{3}$ cm²

  3. $54 \sqrt{3}$ cm²

4. 72 √3 cm²

5.

Answer : 54 √3 cm²

- Question No. 48

P, Q, R and S can do a piece of work in 20 days. If P and Q together can do it in 50 days, and R alone in 60 days, then in how many days can S alone do it?

Options :

1. 60

2. 75

3. 65

4. 90

5.

Answer : 75

- Question No. 49

A number when divided by 234 gives the remainder 36. What will be the remainder when it is divided by 13?

Options :

1. 6

2. 11

3. 9

4. 10

5.

Answer : 10

- Question No. 50

A's age : B's age is 4 : 3. After 6 years, A will be 26 years. What is B's present age?

Options :

1. 12

2. 18

3. 15

4. 9

5.

Answer : 15

- Question No. 51

Who was the first Indian bodybuilder to win the Mr.Universe title?

Options :

1. Moloy Roy

2. Monotosh Roy

3. Prem Chand

4. Manohar Aich

5.

Answer : Monotosh Roy

- Question No. 52

Which is the only muscle in the human body that is NOT attached at both the ends?

Options :

1. Tongue

2. Biceps

3. Adductor

4. Triceps

5.

Answer : Tongue

- Question No. 53

Which part of the human ear vibrates according to the sound received?

Options :

1. Hammer

2. Pinna

3. Auditory nerve

4. Tympanic membrane

5.

Answer : Tympanic membrane

- Question No. 54

When a three quarter moon is visible, what is it called?

Options :

1. Half moon

2. Crescent moon

3. Full moon

4. Gibbous moon

5.

Answer : Gibbous moon

- Question No. 55

If 1/7 of a number is subtracted from the number, the result is 30 less than the number. Find the number.

Options :

1. 120

2. 140

3. 210

4. 105

5.

Answer : 210

- Question No. 56

Find the value of $\dfrac{1}{1\times2}+\dfrac{1}{2\times3}+\dfrac{1}{3\times4}+\dfrac{1}{4\times5}+\dfrac{1}{5\times6}+....+\dfrac{1}{9\times10}$

Options :

1. 9/10

2. 5/11

3. 2/5

4. 1/10

5.

Answer : 9/10

- Question No. 57

Find the ODD one out from the given options.

Options :

1. 9

2. 13

3. 7

4. 11

5.

Answer : 9

- Question No. 58

Find the LCM of ($2^2 \times 3^2 \times 5 \times 7$), ($2^2 \times 3 \times 5^2 \times 7$) and ($2 \times 3 \times 5 \times 7$).

Options :

1. 7200

2. 8400

3. 9000

4. 6300

5.

Answer : 6300

- Question No. 59

In a certain code, 'ITNIETAM' is coded as 'INTIMATE'. How will 'TREVNIETARBI' be coded?

Options :

1. INVERTIBARTE

2. INVERTIBRATE

3. INVERTIBRETA

4. INVRETIBRATE

5.

Answer : INVERTIBRATE

- Question No. 60

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

144	49	36	25
529	196	?	42
961	256	121	58

Options :

1. 34

2. 30

3. 32

4. 25

5.

Answer : 25

- Question No. 61

Choose the pair in which the words show the same relationship as in the pair given below.

Cholera : Water

Options :

1. Cat : Plague

2. Malaria : Mosquito

3. Poison : Death

4. Medicine : Disease

5.

Answer : Malaria : Mosquito

- Question No. 62

Find the wrong number in the given series.

12, 18, 27, 42, 62, 87

Options :

1. 18

2. 27

3. 42

4. 87

5.

Answer : 18

- Question No. 63

Which of the following is equal to a measurement of 1 mA?

Options :

1. 10^{-3} A

2. 10^3 A

3. $10 \square$ A

4. $10^{-\square}$ A

5.

Answer : 10^{-3} A

- Question No. 64

P, Q and R can do a work in 15, 20 and 30 days respectively. The contractor decides to put any two of them on the job so as to finish the work earlier. Which of these choices is the best?

Options :

1. Either PQ or QR

2. QR

3. RP

4. PQ

5.

Answer : PQ

- Question No. 65

Around a circular track of 120 m, P and Q start running simultaneously from the same point in the same direction at 20 m/min and 12 m/min. At how many points will they meet?

Options :

1. 2

2. 1

3. 4

4. 3

5.

Answer : 2

- Question No. 66

Find the value of sin (180° - ▢) cos (90° - ▢) - cos (180° - ▢) sin (90° - ▢).

Options :

1. cos ▢

2. 1

3. tan ▢

4. 0

5.

Answer : 1

- Question No. 67

Mushroom is a/an-

Options :

1. Fungus

2. Animal

3. Slime mould

4. Plant

5.

Answer : Fungus

- Question No. 68

Iodine is used to test the presence of _____ in food.

Options :

1. Fat

2. Vitamin

3. Protein

4. Starch

5.

Answer : Starch

- Question No. 69

Anitha walks 4 km towards north direction and turns left. After reaching 2 km, she turns right and walks 5 km.

Which direction is she standing from the starting point?

Options :

1. South west

2. North west

3. North east

4. South east

5.

Answer : North west

- Question No. 70

The amplitude of the sound wave depends on the

Options :

1. Object's quality

2. Object's material

3. Object's temperature

4. Force with which an object is made to vibrate

5.

Answer : Force with which an object is made to vibrate

- Question No. 71

Ages of P, Q and R are in the ratio 4 : 7 : 9. 8 years ago, the age of R was Q's present age. What is the sum of their ages at present?

Options :

1. 50

2. 80

3. 100

4. 60

5.

Answer : 80

- Question No. 72

Who among the following was the first cricketer to score a century for India in a test match?

Options :

1. Lala Amarnath

2. Deepak Shodhan

3. Hanumant Singh

4. Surinder Amarnath

5.

Answer : Lala Amarnath

- Question No. 73

Arthritis is a disease that affects the-

Options :

1. Kidneys

2. Lungs

3. Joints

4. Brain

5.

Answer : Joints

- Question No. 74

Find the ODD one out from the given options.

Options :

1. 159

2. 177

3. 121

4. 153

5.

Answer : 121

- Question No. 75

The cash difference between the selling prices of an article at a profit of 4% and 6% is Rs.3. Find the ratio of the two selling prices.

Options :

1. 52 : 53

2. 51 : 53

3. 52 : 55

4. 51 : 52

5.

Answer : 52 : 53

- Question No. 76

  What is the power of a lens whose focal length is 1 m?

  Options :

  1. 1D
  2. 2D
  3. 3D
  4. 4D
  5.

  Answer : 1D

- Question No. 77

  Two numbers are in the ratio 4 : 5. Their LCM is 180. What is their sum?

  Options :

  1. 81
  2. 90
  3. 70
  4. 72
  5.

  Answer : 81

- Question No. 78

  Complete the series.

  168, 151, 134, 117, (...)

  Options :

1. 82

2. 97

3. 95

4. 100

5.

Answer : 100

- Question No. 79

  Which of the following is NOT a base?

  Options :

  1. KOH

  2. NH▢OH

  3. NaOH

  4. C▢H▢OH

  5.

  Answer : C▢H▢OH

- Question No. 80

  Simplify: sin (A + B) sin (A - B)

  Options :

  1. $\sin^2 A - \sin^2 B$

  2. $\cos^2 A - \cos^2 B$

  3. $\sin^2 A + \sin^2 B$

  4. cos 2A

  5.

  Answer : $\sin^2 A - \sin^2 B$

- Question No. 81

Which of the following component imparts green colour to leaves?

Options :

1. Nitrogen

2. Chlorophyll

3. Urea

4. Water

5.

Answer : Chlorophyll

- Question No. 82

What is the chemical formula of bleaching powder?

Options :

1. $CaCl_2$

2. $CaOCl_2$

3. CCl_4

4. $Ca(OH)_2$

5.

Answer : $CaOCl_2$

- Question No. 83

P and Q together can complete some work in 30 days. Q and R together can do the same in 24 days. R and P together will take 20 days to complete it. If they all work together, in how many days will the job get done?

Options :

1. 25

2. 8

3. 15

4. 16

5.

Answer : 16

- Question No. 84

P and Q invested in a business in the ratio 5 : 13. Q withdrew his capital after 6 months. If they shared their profit in the ratio 25 : 26, for how long was P's amount used?

Options :

1. 18 months

2. 12 months

3. 8 months

4. 15 months

5.

Answer : 15 months

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

Eight friends—A, B, C, D, E, F, G and H are sitting around a circular table facing the centre. Each one of them likes different brands of air conditioner—Daikin, Samsung, Blue Star, Godrej, Onida, Panasonic, Voltas and Whirlpool, but not necessarily in the same order.

A sits third to the right of the person who likes Whirlpool. A does not like Blue Star. E is not an immediate neighbour of H. C sits on the immediate right of the person who likes Blue Star. Neither A nor H likes Onida or a Samsung. The person who likes Onida is not an immediate neighbour of the person who likes Whirlpool.

The person who likes Daikin sits second to the left of E. The person who likes Daikin is an immediate neighbour of the both persons who like Panasonic and Voltas. Person who likes Voltas sits third to the right of B. B does not like Onida. F is not an immediate neighbour of A. G is not an immediate neighbour of the person who likes Daikin. Only two people sit between the person who likes Voltas and H. The persons who like Onida and the Samsung are immediate neighbours of each other.

- Question No. 85

Who among the following sits on the immediate right of A?

Options :

1. D
2. H
3. G
4. B
5.

Answer : D

- Question No. 86

A boy is standing at a platform and sees his watch showing 3:45 PM. The hour hand points east and the minute hand points west. Which direction the boy is facing now?

Options :

1. South east
2. East
3. North
4. South west
5.

Answer : North

- Question No. 87

The second most abundant element in the earth's crust is

Options :

1. Oxygen
2. Iron

3. Aluminium

4. Silicon

5.

Answer : Silicon

- Question No. 88

Which material is used as a moderator in a nuclear power plant that slows down the neutrons and makes them fit for causing fission?

Options :

1. Boron

2. Beryllium

3. Silicon

4. Graphite

5.

Answer : Graphite

- Question No. 89

If 'THRASH' is coded as 'UGSZTG', how will 'HEAD' be coded?

Options :

1. IDBC

2. IECD

3. GDZC

4. GDBC

5.

Answer : IDBC

- Question No. 90

Simplify: $\sqrt{25+10\sqrt{6}} + \sqrt{25-10\sqrt{6}}$

Options :

1. $\sqrt{55}$

2. $2\sqrt{15}$

3. $\sqrt{50}$

4. $2\sqrt{5}$

5.

Answer : $2\sqrt{15}$

- Question No. 91

Find the wrong group of alphabets in the following series.

BZ, DV, ES, HN, JJ

Options :

1. ES

2. BZ

3. HN

4. JJ

5.

Answer : ES

- Question No. 92

Complete the series.

1, 3, 7, 15, 31, (...)

Options :

1. 127

2. 63

3. 47

4. 39

5.

Answer : 63

- Question No. 93

Which of the following reactions is commonly used in the hydrogenation of vegetable oils using a nickel catalyst?

Options :

1. Substitution reaction

2. Addition reaction

3. Oxidation reaction

4. Displacement reaction

5.

Answer : Addition reaction

- Question No. 94

If an object starts moving and if there is no friction at all, what happens?

Options :

1. The object can never stop

2. The object stops immediately

3. The object stops after sometime

4. The object starts flying

5.

Answer : The object can never stop

- Question No. 95

Which of the following parts of Constitution is associated with the Union territories?

Options :

1. Part VIII

2. Part VI

3. Part IV

4. Part IX

5.

Answer : Part VIII

- Question No. 96

On what principal will the difference between Compound Interest and Simple Interest at 10% rate in 3 years be equal to Rs.620?

Options :

1. Rs.24000

2. Rs.25000

3. Rs.20000

4. Rs.18000

5.

Answer : Rs.20000

- Question No. 97

Travelling at 3/4 of the normal speed, a person reaches his workplace 15 minutes late. How many minutes does he take usually to reach the workplace?

Options :

1. 60 minutes

2. 30 minutes

3. 42 minutes

4. 45 minutes

5.

Answer : 45 minutes

- Question No. 98

Choose the figure that best represents the relationship among the classes given below.

Vegetable, Woman, Lion, Parrot

A)

B)

C)

D)

Options :

1. A

2. B

3. C

4. D

5.

Answer : C

- Question No. 99

Lanthanides and actinides are also called _____.

Options :

1. Noble gases

2. Normal elements

3. Inner transition elements

4. Transition elements

5.

Answer : Inner transition elements

- Question No. 100

By how much is four-sevenths of 420 exceeds three-fifths of 200?

Options :

1. 80

2. 60

3. 120

4. 90

5.

Answer : 120

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