INSTRUCTIONS **NUMBER OF QUESTIONS : 100** **TIME : 2 Hrs**

1. ATTEMPT ALL QUESTIONS WITHIN THE TIME.
2. EACH QUESTION CARRIES 1 MARK
3. NO NEGATIVE MARKS.
4. DON'T DO ROUGH WORK ON QUESTION PAPER AND OMR.
5. USE BLACK (OR) BLUE PEN FOR BUBBLING ON OMR.

CORRECT METHOD OF BUBBLING

WRONG METHOD OF BUBBLING

INTO 8TH CLASS ICSE

MATHEMATICS

1. The collection of whole numbers and all negative numbers is called as _____

   1) W 2) N 3) I 4) Q

2. How many whole numbers are there from 'b' to 'a'

   1) a – b – 1 2) a – b + 1 3) a + b – 1 4) a – b

3. $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right).....\left(1-\frac{1}{n}\right) =$ _____

   1) 0 2) 1 3) $\frac{1}{n}$ 4) n

4. If a = 25 then $a^{25^0} + a^{0^{25}} =$ _____

   1) 25 2) 26 3) 2 4) 0

5. The H.C.F and L.C.M of two numbers 'x' and 'y' are respectively 3 and 105, if x + y = 36, then $\frac{1}{x}+\frac{1}{y} =$ _____

   1) 35 2) $\frac{3}{5}$ 3) $\frac{4}{35}$ 4) $\frac{1}{35}$

6. $(-1)^1+(-1)^2+(-1)^3+(-1)^4+.....+(-1)^{1000}$

   1) 0 2) 1 3) -1 4) 1000

7. The reciprocal of fraction $2\frac{3}{5}$ is _____

   1) $2\frac{5}{3}$ 2) $\frac{13}{5}$ 3) $\frac{5}{13}$ 4) $2\frac{2}{5}$

8. Find the value of $999\frac{1}{7}+999\frac{2}{7}+999\frac{3}{7}+999\frac{4}{7}+999\frac{5}{7}+999\frac{6}{7} =$ ____

   1) 5997 2) 5979 3) 5994 4) 2997

9. The sum of two numbers is sum of their reciprocals. Then product of two numbers is _____

1) 0 2) 1 3) -1 4) $\frac{1}{2}$

10. Which of the following is correct statement

1) $\frac{3}{4}<\frac{2}{3}<\frac{12}{15}$ 2) $\frac{2}{3}<\frac{3}{4}<\frac{12}{15}$ 3) $\frac{2}{3}<\frac{12}{15}<\frac{3}{4}$ 4) $\frac{12}{15}<\frac{2}{3}<\frac{3}{4}$

11. If a fraction $\frac{a}{b}$ is a lowest terms, then L.C.M of 'a' and 'b' is _____

1) a 2) b 3) ab 4) 1

12. If $63.9805 = 6A + \frac{3}{B} + 9C + \frac{8}{D} + 5E$,
then what is the value of 4A + 7B + 6C + D + 3E

1) 47.603 2) 47.6003 3) 147.6003 4) 147.603

13. Which of the following is not rational number

1) 0 2) $\sqrt{49}$ 3) 3.14 4) $\sqrt{5}$

14. Which of the following is false

1) The natural number '1' has no predecessor
2) The whole number '0' has no predecessor
3) Zero is the smallest natural number 4) Zero is the smallest whole number

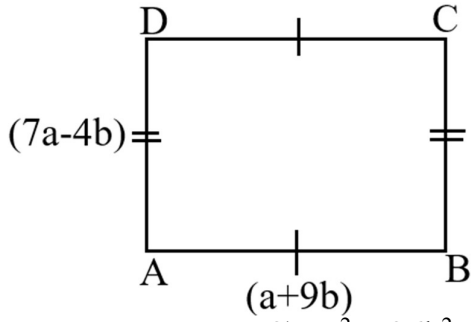
15. If $x+\cfrac{1}{1+\cfrac{1}{3+\frac{1}{4}}}=2$ *then* $x =$ _____

1) $1\frac{4}{17}$ 2) $2\frac{4}{17}$ 3) $3\frac{4}{17}$ 4) $4\frac{4}{17}$

16. Value of : $48-\left[18-\left\{16-\left(5-\overline{4-1}\right)\right\}\right]$

1) 42 2) 43 3) 45 4) 44

17. What is the area of following rectangle ABCD



1) $7a^2 - 36b^2 + 15ab$ 2) $7a^2 + 36b^2 + 59ab$
3) $7a^2 - 36b^2 + 59ab$ 4) $7a^2 + 36b^2 + 15ab$

18. In $-3x^5$, what is base

1) -3 2) x 3) -3x 4) 5

19. Which of the following are not twin primes

1) (3, 5) 2) (5, 7) 3) (11, 13) 4) (13, 15)

20. If $(64)^x = \frac{1}{(256)^y}$ *then* $3x + 4y =$ _____

1) 2 2) 3 3) 1 4) 0

21. If $2^a = 3^b = 7^c = 42$ then $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} =$ _____

1) 1 2) 2 3) 3 4) 4

22. Standard form of '2024' is _____

1) 20.24×10^2 2) 2.024×10^3 3) 2.024×10^4 4) 2.024×10^2

23. The algebraic expression for the statement "Twice the product of 'm' and 'n' is equal to thrice their difference"

1) 3mn = 2(m – n) 2) mn = 2(m – n) 3) 2mn = m – n 4) 2mn = 3(m – n)

24. If $2^a.4^b = 8$ *and* $a + 7b = 4$ then value of $\frac{a}{b}$

1) $\frac{11}{5}$ 2) 11 3) $\frac{13}{5}$ 4) 13

25. Degree of $1 + 2x + 3x^2 + 4x^3 +$……(200 terms)

1) 200 2) 199 3) 201 4) 202

26. If abc = 0 then value of $\left(x^a\right)^{bc} + \left(x^b\right)^{ac} + \left(x^c\right)^{ab}$

1) 0 2) 3 3) 2 4) 1

27. Which of the following is simple equation

1) $x + y + z = 0$ 2) $x^2 - 10x + 25$ 3) $7x - 9 = 0$ 4) $3y + 10$

28. Rahim's father is three times as old as Rahim. If sum of their ages is 56 years. What is the age of father

1) 40 years 2) 42 years 3) 44 years 4) 46 years

29. If $ab + bc + ca = 0$ then $\left(\frac{1}{a^2 - bc} + \frac{1}{b^2 - ca} + \frac{1}{c^2 - ab}\right) =$ _____

1) 0 2) 1 3) 3 4) $a + b + c$

30. If 6x + 5 = 17 then x = _____

1) 4 2) 3 3) 2 4) 1

31. What is the perimeter of triangle whose sides are 2y + 3z; z – y, 4y – 2z

1) 5y + 2z 2) –5y + 2z 3) 5y – 2z 4) –5y – 2z

32. Which of the following is not defined

1) $(6+9) \div 3$ 2) $(5-5) \div (-2)$ 3) $(7-7) \div 0$ 4) $0 \div (-6)$

33. The additive inverse of '-7' is _____

1) -7 2) $\frac{-1}{7}$ 3) 7 4) $\frac{1}{7}$

34. $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} =$ _____

1) $\frac{3}{9}$ 2) $\frac{13}{12}$ 3) $\frac{1}{12}$ 4) $\frac{1}{9}$

35. If a = 2 and b = 3 than $(a+b)^a$ = _____

1) 5 2) 25 3) 125 4) 625

36. Which of the following are unlike terms

1) $3a^2b, 4ba^2, 5a^2b$ 2) $x^2, 2x^2, 3x^2$ 3) xy, yz, zx 4) $2x^2y, 3yx^2, 4x^2y$

37. If $a+b+c=7$ *and* $\frac{1}{a+b}+\frac{1}{b+c}+\frac{1}{c+a}=\frac{7}{10}$ then value of

$\frac{a}{b+c}+\frac{b}{c+a}+\frac{c}{a+b}=$ _____

1) $\frac{15}{9}$ 2) $\frac{14}{9}$ 3) $\frac{17}{10}$ 4) $\frac{19}{10}$

38. If $7^{2x-4}=1$ then x = _____

1) 0 2) 1 3) -1 4) 2

39. The sum of the coefficients in the terms of $2x^2y - 3xy^2 + 4xy$ is _____

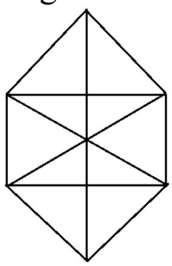
1) -3 2) 3 3) 9 4) 5

40. Which of the following is kaprekar's constant

1) 6174 2) 6714 3) 6147 4) 6417

ARITHMETIC AND LOGICAL REASONING QUESTIONS:

41. Number of triangles are formed in the figure



1) 20 2) 22 3) 18 4) 16

42. If the cost of 8 apples is ₹72, then what is the cost of dozen apples

1) ₹108 2) ₹109 3) ₹110 4) ₹72

43. The selling price at which the article is sold to the customer after deducting the discount from marked price is called _____

1) List price 2) Printed price 3) Marked price 4) Net price

44. If 'P' is called '÷', 'Q' is called '×', 'R' is called '+' and 'S' is called '–' then value of "20P4Q7R3S7"

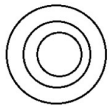
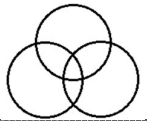
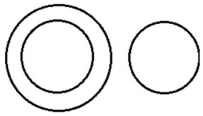
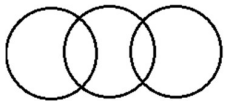
1) 32 2) 31 3) 33 4) 36

45. Find the missing number, if same rule is followed either row wise (or) column wise

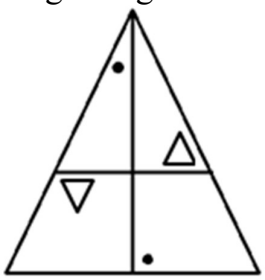
14	19	30
21	31	49
32	35	?

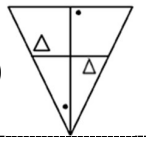
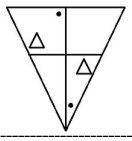
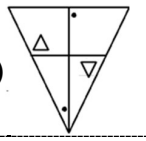
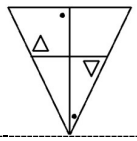
1) 67 2) 64 3) 54 4) 59

46. Which of the following diagram represents lawyer, woman, doctor

1)  2)  3)  4) 

47. Select the correct water image of the give figure



1)  2)  3)  4) 

48. If $35 \times 35 = 1225$
$335 \times 335 = 112225$.....*etc*
Then what is the sum of the digits of $333333335 \times 333333335$
1) 34 2) 31 3) 37 4) 36

49. In a certain code language, 'INACTIVE' is coded as "CXGVACLK". How will 'OPERATOR' be coded in the same code language
1) PGNQPQRC 2) NODQBUPS 3) PQRCPGNQ 4) PQFSBUPS

50. If seven fruits are distributed to seven students without any conditions. How many total ways we can get?
1) 15 2) 14 3) 13 4) 7

GENERAL SCIENCE

51. _____ muscles are found attached to bones are under the control of the will of an individual
1) Cardiac 2) Striated 3) Muscular 4) Un striated

52. Liquid part in the blood is _____
1) Plasma 2) Lymph 3) WBC 4) Platelets

53. Example of multi cellular organisms
1) Amoeba 2) Euglena 3) Paramecium 4) Bread mould

54. Outer covering of amoeba is _____
1) Cell membrane 2) Nucleus 3) Food vacuole 4) Cytoplasm

55. _____ are thread like structures which stick to the surface and absorb water
1) Rhizoids 2) Haustoria 3) Fibrous roots 4) Tap roots

56. Carbon dioxide + water $\xrightarrow[\text{Sunlight}]{\text{Chlorophyll}}$ _____ + oxygen
1) Sucrose 2) Glucose 3) Lactose 4) Sugars

57. The leaves consists of more than one colour patches are called _____
1) Variegated leaves 2) Chlorophyll filled leaves
3) Carotenoid leaves 4) Anthocyanin leaves

58. In anaerobic respiration the food is broken down into _____
1) Methanol 2) Ethanol 3) Sugar 4) Lactose

59. Stomata are present on the surface of
1) Leaves 2) Roots 3) Stem 4) Flower petals

60. End products of photosynthesis are
1) Glucose 2) Oxygen 3) CO_2 4) 1 and 2

61. The small fine branches given out from the cell body of a nerve cell are
1) Dendrites 2) Cyton 3) Axon 4) Neurons

62. _____ tissue contains cells filled with fat globules
1) Areolar 2) Adipose 3) Tendons 4) Ligaments

63. Animals without a backbone are _____
1) Invertebrates 2) Vertebrates 3) Cryptogams 4) Phanerogams

64. Excess of water from the body of the amoeba is collected in _____
1) Cell membrane 2) Cytoplasm 3) Contractile vacuole 4) Nucleus

65. Identify flatworm from the given options
1) Tape worm 2) Round worm 3) Sponge 4) Annelida

66. An iron cube of mass 78g it is having volume of $10cm^3$. Then find the density?
1) $780g\ cm^{-3}$ 2) $7.8g\ cm^{-2}$ 3) $7.8g\ cm^{-3}$ 4) $780g\ cm^{-2}$

67. The length, breadth and height of a box is 8m, 5m, 3m respectively. If density of air is $1.29kg\ m^{-3}$. Find the mass of air in the box
1) 154.8kg 2) 15.48kg 3) 1.548kg 4) 154.8g

(Read the above situation and answer the questions from 68-69)
A person 'A' is in bus, which is moving around the park and person 'B' is sitting on a bench which is in the park

68. With reference to person 'A', person 'B' is in
1) Motion 2) Rest 3) Both 4) None

69. With reference to bus, person 'A' is in _____
1) Motion 2) Rest 3) Both 4) None

70. Motion of strings of a guitar is an example of
1) Oscillatory 2) Vibratory 3) Translatory 4) Rotatory

71. A ball falls down vertically. Its motion is
1) Periodic 2) Linear 3) Circular 4) Vibratory

72. 1J = _____
1) 1N-m 2) $1N\ m^2$ 3) 1N 4) N/m

73. The energy possessed by a body by virtue of its position and motion is called _____
1) Potential energy 2) Kinetic energy
3) Mechanical energy 4) Magnetic energy

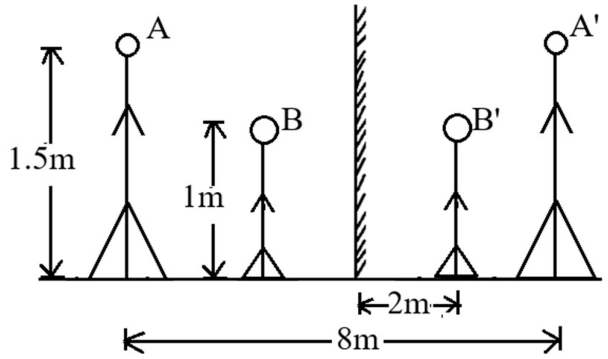
74. The force required to row a boat at constant velocity is proportional to the speed. If a speed of 4km/h requires 7.5kw, then a speed of 12km/h requires nearly
1) 67.5kw 2) 72kw 3) 15kw 4) 22.5w

75. Hammer at a height possesses _____ energy
1) Mechanical 2) Kinetic 3) Potential 4) Magnetic

76. Electromagnet is an example of transformation of energy from
1) Mechanical $\rightarrow$ Electrical 2) Electrical $\rightarrow$ Magnetic
3) Light $\rightarrow$ Electrical 4) Heat $\rightarrow$ Mechanical

77. The energy stored in electric cell is _____ energy
1) Chemical 2) Electrical 3) Heat 4) Mechanical

Observe the given figure and answer the following questions from (78 – 80)

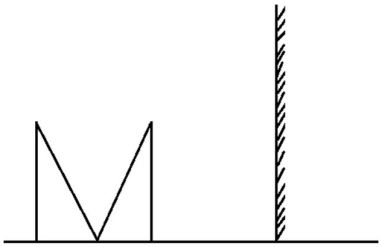


78. The distance from object A to image B' is _____
1) 2m 2) 4m 3) 6m 4) 8m

79. The distance from object B to image B' is _____
1) 2m 2) 4m 3) 6m 4) 8m

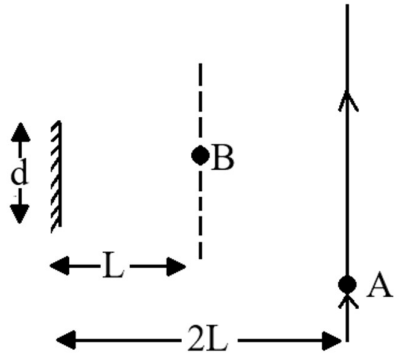
80. The height of image B' is _____
1) 1.5m 2) 1m 3) 2.5m 4) 0.5m

81. Identify the lateral inversion of letter 'M'



1) 2) 3) 4)

82. A point source of light B is placed at a distance L in front of the center of a mirror of width 'd' hung vertically on a wall. A man walks in front of the mirror along a line parallel to the mirror at a distance 2L from it as shown. The greatest distance over which he can see the image of the light source in the mirror is



1) $\frac{d}{2}$ 2) d 3) $2d$ 4) $3d$

83. The angle between incident ray and reflected ray is 90^0. Then what is the angle of reflection?
1) 90^0 2) 60^0 3) 30^0 4) 45^0

84. Tartaric acid is available in _____
1) Apple 2) Tamarind 3) Tea 4) Orange

85. Rusting of iron is an example of _____ change
1) Physical 2) Chemical 3) Periodic 4) Non-periodic

86. When a basic solution is added to an indicator, a green colour is produced. The indicator should be
1) Red litmus indicator 2) China rose indicator
3) Phenolphthalein indicator 4) Turmeric paper indicator

87. Which of the following is a mineral acid?
1) Citric acid 2) Acetic acid 3) Carbonic acid 4) Oxalic acid

88. The property which is common between vinegar and curd is
1) Tasteless 2) Sour taste 3) Bitter taste 4) Sweet taste

89. The gas which turns lime water milky is
1) Sulphur dioxide 2) Carbon dioxide 3) Nitrogen dioxide 4) Hydrogen chloride

90. Example of non periodic change
1) Swinging of pendulum 2) Changing of seasons
3) Ticking of seconds hand in a clock 4) Melting of ice

ENGLISH

CHOOSE THE CORRECT ANSWERS:

91. Rekha was married _____a doctor.
1) with 2) to 3) for 4) on

92. Identify the modal verb from the following.
1) is 2) was 3) does 4) can

93. My best friend is _____European.
1) an 2) the 3) a 4) No article

94. I know nothing _____him.
1) of 2) to 3) about 4) for

95. They sang a song. [Choose the correct passive form of the given sentence]
1) A song was sanged by them. 2) A song is sang by them.
3) A song was sung by them. 4) A song is being sung by them.

96. We <u>are</u> friends. [Identify the tense of the given verb.]
1) Simple present 2) Simple past
3) Present continuous 4) Simple future

97. Identify the past form (V_2) of the verb 'throw'.
1) thrown 2) throwed 3) threw 4) throwd

98. My mom gave me _____advice about my school project.
1) a 2) an 3) the 4) No article

99. The pacific is _____than many other oceans.
1) deep 2) deepest 3) deeper 4) deeply

100. She had to face <u>enough</u> problems on her way to Chennai.
[Identify the parts of speech of the given word]
1) Noun 2) Adverb 3) Adjective 4) Verb

THE END