

45. The number 29.251 rounded off to one decimal position is -

- (a) 29.2 (b) 29.3 (c) 29.25 (d) 29.26

46. How many self reciprocal numbers are there?

- (a) four (b) three (c) two (d) one

47. If a, b, c are the digits in unit, tens and hundreds place respectively of a three digit number, then the number is -

- (a) $a+b+c$ (b) $100a+10b+c$ (c) $a.b.c$ (d) $100c+10b+a$

48. If 10 person complete a work in 15 days, then how many days are required to complete the same work for 50 workers?

- (a) 75 days (b) 3 days (c) 50 days (d) 40 days

49. If $x = 5$ and $y = -1$ then the value of $x^3 - 3x^2y + 3xy^2 - y^3$ is -

- (a) 64 (b) 16 (c) 36 (d) 216

50. A wire is bent to form a rectangle with length 6 cm and breadth 4 cm. If this wire is bent to form a square what is its area?

- (a) 36 sq. cm (b) 16 sq. cm (c) 25 sq. cm (d) 100 sq. cm

← x →



MATHEMATICS TALENT HUNT 2023

Organized by : The Pi Group of Mathematics (TPGM), Cooch Behar

Registration No. - S0031696 of 2022-23

Class – VI

Full Mark : 100

Time : 2 Hours.

Instructions

1. There are 50 question of 2 marks each.
2. Put tick mark ($\sqrt{}$) only on the correct alternative against each question in your answer sheet.
3. There is no negative marking.

1. The sum of the place values of 5's in 605052 is –

- (a) 4050 (b) 4950 (c) 5050 (d) 500

2. The perimeter of a rectangle with length 60 cm and breadth 40 cm is -

- (a) 2400 cm (b) 200 square cm (c) 200 cm (d) 100 cm

3. The decimal form of $(30 + 7 + \frac{4}{1000})$ is -

- (a) 37.4 (b) 37.04 (c) 370.4 (d) 37.004

4. The integer which is 6 less than (- 4) is -

- (a) 10 (b) - 10 (c) 2 (d) - 2

5. Perimeter of a regular octagon is 256 cm. Each of its sides will be –

- (a) 64 cm (b) 32 cm (c) 16 cm (d) 8 cm

6. The number of diagonals in a pentagon is -

- (a) 5 (b) 6 (c) 4 (d) 10

7. The smallest natural number is - (a) 1 (b) 0 (c) 10 (d) 100

8. The fraction which is not equal to $\frac{3}{4}$ is - (a) $\frac{6}{8}$ (b) $\frac{13}{14}$ (c) $\frac{15}{20}$ (d) $\frac{30}{40}$

9. Which of the following equation does not have a solution in integers?

- (a) $x - 7 = 9$ (b) $x + 5 = 8$ (c) $2x + 1 = 8$ (d) $2x + 7 = 9$

10. The nearest integer of $(-\frac{8}{3})$ is - (a) 2 (b) 3 (c) - 3 (d) - 2

11. Which solid has the greatest number of faces?

- (a) Cone (b) Cylinder (c) Cube (d) Triangular Prizm

12. 105% can be expressed as - (a) $\frac{105}{1000}$ (b) $\frac{21}{20}$ (c) 0.105 (d) 10.5

13. The largest fraction among the following is - (a) $\frac{2}{3}$ (b) $\frac{3}{4}$ (c) $\frac{4}{5}$ (d) $\frac{5}{6}$

14. Sum of the even numbers between 41 and 49 is -

- (a) 178 (b) 180 (c) 182 (d) 2000

15. The algebraic expression for 'x' multiplied by 4 and subtracted from 25 is –

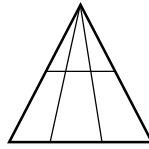
- (a) $4x - 25$ (b) $25 - 4x$ (c) $25x - 4$ (d) $4x + 25$

16. The sum of 70, 75, 80, 85, 90, 95, 100, 105, 110, 115, 120, 125, 130 is -

- (a) 1300 (b) 1200 (c) 1150 (d) 1350

17. Number of triangle in the figure is -

- (a) 6 (b) 8
(c) 10 (d) 12



18. Maximum number of curved line/lines that can be drawn joining two points -

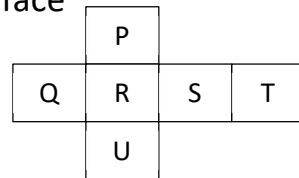
- (a) 1 (b) 2 (c) 3 (d) infinite

19. If a number divide by $\frac{2}{3}$ and then multiplied by $\frac{7}{3}$ then it is equivalent to which of the following operation on the number ?

- (a) multiplying by $\frac{2}{7}$ (b) dividing by $\frac{2}{7}$ (c) multiplying by $\frac{14}{9}$ (d) dividing by $\frac{14}{9}$

20. The diagram shows a net to make a cube. If the cube is made, the face opposite to 'T' is –

- (a) P (b) Q (c) R (d) U



21. Which of the following are complementary?

- (a) 30° and 65° (b) 45° and 40° (c) 60° and 30° (d) 90° and 90°

22. Which of the following will have a non-terminating repeating decimal expression?

- (a) $\frac{15}{800}$ (b) $\frac{29}{630}$ (c) $\frac{13}{125}$ (d) $\frac{11}{200}$

23. If 30° and 60° are two of the three angles of a triangle, then the third angle is –

- (a) 90° (b) 110° (c) 100° (d) 10°

24. Any quadrilateral with each of its four sides equal is called -

- (a) square (b) rhombus (c) rectangle (d) kite

25. Numbers of factor of 36 is - (a) 7 (b) 8 (c) 9 (d) 10

26. If $a = 2$, $b = -3$, $c = 4$ then, the value of $(2a-3b+4c)$ is -

- (a) 11 (b) -11 (c) 3 (d) 29

27. If the radius of a circle is 5 cm then, the length of the greatest chord of the circle is -

- (a) 25 cm (b) 2.5 cm (c) 10 cm (d) 5 cm

28. Which of the following numbers is not divisible by 9?

- (a) 81972 (b) 624258 (c) 7938 (d) 43253

29. The number 9 is square of how many integers? (a) 1 (b) 2 (c) 3 (d) 4

30. If two sides of a triangle are of length 4 cm and 5 cm, then the length of the third side can not be –

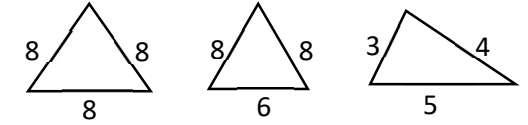
- (a) 2 cm (b) 10 cm (c) 3 cm (d) 6 cm

31. $(10 + 2 + \frac{7}{100} + \frac{6}{1000})$ in decimal form is written as -

- (a) 12.706 (b) 12.076 (c) 76.12 (d) 1.2076

32. Number of isosceles triangle given here is –

- (a) zero (b) one (c) two (d) three



33. Number of numbers between 1 and 5 is –

- (a) 3 (b) 4 (c) 5 (d) un-countable

34. Which of the following integers is divisible by 11?

- (a) 123456 (b) 213456 (c) 124365 (d) 134365

35. If $\frac{4+2x}{5} = 12$ then, 'x' is - (a) 60 (b) 56 (c) 28 (d) 17

36. The average of first four prime number is - (a) 4 (b) 4.25 (c) 6.5 (d) 3.75

37. 0.032 lies between -

- (a) 0.1 and 0.2 (b) 0.03 and 0.04 (c) 0.02 and 0.03 (d) 0.036 and 0.04

38. Values of 5^5 is - (a) 25 (b) 10 (c) 625 (d) 3125

39. Ratio between thousand and million is -

- (a) 1000 : 1 (b) 1 : 1000 (c) 1 : 100 (d) 100 : 1

40. The number of three digit number that can be formed using 1, 2, 3 (using each of them not more than once) is -

- (a) 3 (b) 6 (c) 12 (d) 9

41. Number of line of symmetry of a rectangle is -

- (a) 1 (b) 6 (c) 3 (d) 2

42. The difference between the number of sides and the number of faces of a cube is -

- (a) 6 (b) 4 (c) 4 (d) 5

43. An obtuse angled triangle has –

- (a) all of its angles are obtuse (b) two of its angles are obtuse (c) one of its angle is obtuse (d) none of these

44. Who introduced the decimal representation of integers?

- (a) Arabs (b) Indians (c) Europeans (d) Native Americans