

40) A basket of apples weighs 500 gms. What is the weight of 9 baskets of apples?

Ans: _____

41) If a profit of Rs. 2180 is written as +Rs 2180, then a loss of Rs. 2180 should be written as

Ans: _____

42) If $-30 + (-y) + 20 = 0$ then the value of y is _____

Ans: _____

43) $1 \times (-1) \times 1 \times (-1) \times 1 \times (-1) \times \dots \dots \dots 20 \text{ times} =$ _____

Ans: _____

44) Divide 240 by the product of 6 and 5.

Ans: _____

45) Multiply 715 by 20 divide by 25.

Ans: _____

46) Shyam earns Rs. 3500. If he spends Rs. 1249 on buying a cell phone. What is the balance with him?

Ans: _____

47) Write the set builder form: $S = \{\dots\dots\dots, -3, -2, -1, 0\}$

Ans: _____

48) $S = \{1, \sqrt{2}, \sqrt{3}, 2, \sqrt{5}, \sqrt{6}\}$

Ans: _____

49) Write the roster form: $A = \{x : x \text{ is a positive integer less than 50 and a multiple of 5}\}$

Ans: _____

50) $1 \times (-1) \times 1 \times (-1) \times 1 \times (-1) \times \dots \dots \dots 78 \text{ times} =$ _____

Ans: _____

*** BEST OF LUCK ***



IIT Foundation (Test - 01)

CLASS-VI (MATHEMATICS)

Total Marks
50

Name : _____

Roll No : _____ Sec : _____

I. Choose the correct answer: [30 x 1 = 30]

- 1) The change of _____ of an element in a set has no effect to the set.
a) Color b) Weight c) Position d) None of these
- 2) The symbol _____ is used to represent an element is a member of a set.
a) β b) $\notin$ c) $\in$ d) None of these
- 3) A set which contains infinite number of elements is called an _____ set.
a) Small b) Big c) Finite d) None of these
- 4) In set builder form a _____ is used to represent an element of a set.
a) β b) $\notin$ c) Variable d) None of these
- 5) Digit 3 in the number 123456 represents
a) 3 units b) 3 tens c) 3 thousands d) None of these
- 6) 35679 rounded of to the nearest hundred is
a) 35670 b) 35700 c) 35780 d) None of these
- 7) The difference between 3476 and 2163 is _____
a) 1323 b) 1313 c) 313 d) None of these
- 8) Which of the following has the largest value?
a) $23457 + 42864$ b) $33427 + 41864$ c) $32574 + 42684$ d) None of these
- 9) Which among these are natural numbers? _____
a) 0, 1, 2, 3, 4, 5, 6, b) 1, 2, 3, 4, 5, 6, 7,
c) -5, -4, -3, -2, -1, 0 d) None of these
- 10) The integer -5 is read as _____
a) Minus 5 b) Negative 5 c) Subtract 5 d) None of these
- 11) If +5 means 5 units forward then -5 means 5 units _____
a) Forward b) Back c) To the left d) None of these

- 12) $145 + (-200) =$ _____
 a) -65 b) -55 c) 55 d) None of these
- 13) The number of negative integers between -6 and 6 is _____.
 a) 5 b) 6 c) 11 d) None of these
- 14) In "BODMAS" B stands for _____.
 a) By b) Bracket c) Multiplication d) None of these
- 15) A negative number multiplied with a negative number produces _____.
 a) A positive number b) A negative number c) Zero d) None of these
- 16) In the equation $x = 100 - 50 + 18 / 2$, First _____ must be solved
 a) $100 - 50$ b) $-50 + 18$ c) $18 / 2$ d) None of these
- 17) Which digit in the number 417853 has a place value ten thousand?
 a. 4 b. 5 c. 1 d. None of these
- 18) Which of the following when rounded of the nearest thousands is 56000
 a. 55499 b. 55599 c. 55399 d. None of these
- 19) $1384 + 5580 + 47218 = ?$
 a. 54182 b) 54178 c) 51184 d) None of these
- 20) $54783 = 50000 +$ _____ $+$ _____ $+ 80 + 3$
 a) 4000, 70 b) 4000, 7 c) 4000, 700 d) None of these
- 21) $43 \times 218 = ?$
 a) 6864 b) 9374 c) 8944 d) None of these
- 22) $13 \times 48 \times 25 = ?$
 a) 18600 b) 16600 c) 15600 d) None of these
- 23) The number 1 is called as the _____.
 a) Binary number b) Unit number
 c) Negative number d) None of these
- 24) A glass of water is at its freezing point of 0°C . When salt is added, its temperature drops 5°C below 0. What is the temperature of the water?
 a. 5°C b) $+5^\circ \text{C}$ c) -5°C d) None of these
- 25) Which of the following is false?
 a) $5 > 0$ b) $4 < -3$ c) $2 > -3$ d) None of these

- 26) $-8 - (-3) - (-3) =$ _____
 a) 16 b) -2 c) 0 d) None of these
- 27) $-10 - (-2) - 3 =$ _____
 a) 10 b) -11 c) 0 d) None of these
- 28) $-40 + (-5) + (-3) =$ _____
 a) -48 b) -32 c) 32 d) None of these
- 29) $-52 + (-7) - (-42) =$ _____
 a) -101 b) -59 c) -17 d) None of these
- 30) $1 - (1 - \overline{1 - 1}) - 1 =$ _____
 a) 1 b) -1 c) 2 d) None of these

II. Which of the following are well defined sets (Write Yes or No): [5 x 1 = 5]

- 31) Set of poor people in India. **Ans:** _____
- 32) Set of students of your class aged more than 11 years. **Ans:** _____
- 33) Set of easy problems of your math book. **Ans:** _____
- 34) Set of good students of your class. **Ans:** _____
- 35) Set of lady teachers of your school. **Ans:** _____

III. Solve the following problems: [15 x 1 = 15]

- 36) Shanthi brought 19 boxes of sweets. Each box contains 228 sweets. How many sweets would be left with her after giving 519 sweets to friends?
Ans: _____
- 37) The company divided 15484 workers equally into 98 groups. How many workers were there in each group?
Ans: _____
- 38) Manoj divides Rs. 2565 equally among his five children. Calculate the amount of money each child would receive.
Ans: _____
- 39) IIST Abacus Education centre has 9,780 students. Of these 4789 are boys. What is the number of girls in the centre?
Ans: _____