ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

Sub: Arithmetic **Class: 7** **Date: 14.11.20**

Duration: 40 Min **Worksheet Solution 03** **Full Marks: 15**

Set

Choose the correct options:

1. Individual Objects in a set are called
   - **a. element**
   - b. set
   - c. list
   - d. None of above
2. A group or collection of objects is called
   - a. element
   - **b. set**
   - c. list
   - d. group
3. The set of vowels in English alphabet contains elements
   - a. {a, b, c, d, e, f}
   - **b. {a, e, i, o, u}**
   - c. {p, q, r, s, t}
   - d. {l, m, n, o, p}
4. The mismatched element in the set {8, 1, 64, 75, 27} is
   - a. 8
   - b. 1
   - c. 27
   - **d. 75**
5. The set {x: x is an odd number between 10 and 18}
   - a. {11, 12, 13, 15, 17}
   - b. {12, 16, 15, 13}
   - **c. {11, 13, 15, 17}**
   - d. {12, 14, 16, 18}
6. Set Q contains the letters in the word SISTER . Which of the following is set Q ?
   - a. Q = { S, T, R }
   - b. Q = { I, E }
   - c. Q = { S, I, S, T, E, R }
   - **d. Q = { S, I, T, E, R }**
7. P={a, b, c, d, e, f, g, h, i, j, k, l,m}
   - **a. Roster Form**
   - b. Universal Form
   - c. Set Builder Notation
   - d. Equivalent Inequalities
8. Given S = { m, 4, 7, 9 } and T = { 4, 9, 3, n }. If set S and set T are equal sets, the value of m + n =
   - a. 14
   - b. 12
   - **c. 10**
   - d. 8
9. What type of set is denoted as either { } or ∅?
   - a. Superset
   - **b. Empty (or Null) Set**
   - c. Disjointed Set

d. Subset

10. What number set is represented? .... -1, 0, 1 .....
    a. Rational
    b. Integers
    c. Whole
    d. Natural
11. What number set is represented? 0, 1, 2, 3.....
    a. Whole
    b. Rational
    c. Integers
    d. Natural
12. What number set is represented? 1, 2, 3, 4 .....
    a. Natural
    b. Whole
    c. Integers
    d. Rational
13. What number set is represented? -1.23, 0, 4, 10.3
    a. Rational
    b. Irrational
    c. Whole
    d. Integers
14. A = {x : x is a letter in the word SEAT} B = {x : x is a letter in the word TASTE} Determine if these two sets are equal or equivalent.
    a. Not equal because seat has 4 letters and taste has 5 letters.
    b. Equivalent because they have the same letters
    c. Equal because each set has the same cardinality and the same letters.
    d. None of these
15. { x | x is a Marymount Student}
    a. Roster Form
    b. Universal Form
    c. Set Builder Notation
    d. Equivalent Inequality