Sub: Arithmetic   **Class: 7**   **Date: 27.07.20**
Duration: 40 Min   **Worksheet 60**   **Full Marks: 15**

EXPONENTS

Choose the correct options:

1. 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 }

2. Given that
R = { factors of 36 }. n(R) =
    (a) 6
    (b) 9
    (c) 12
    (d) 15

3. 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

4. Given that set V = { m, n, o, p }, find the number of subsets V.
    (a) 16
    (b) 12
    (c) 10
    (d) 8

5. What type of set is denoted as either { } or $\emptyset$?
    (a) Superset
    (b) Empty (or Null) Set
    (c) Disjointed Set
    (d) Subset

6. Find n(A) when A = {14, 16, 18, 20, 22, 24}
    (a) 6
    (b) 12
    (c) 4
    (d) 8

7. How many subsets will this set have? A= {a, b, c} ?
    (a) 8
    (b) 6
    (c) 3
    (d) 0

8. If every element in set A is also in set B, then...
    (a) A is a subset of B
    (b) B is a subset of A
    (c) A = B
    (d) A and B are disjoint

9. Every set has _____ as one of its subsets (select all that apply.)
    (a) $\emptyset$
    (b) 0

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    (c) itself

    (d) the real numbers

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. If A = {1, 2, 3, 4, 5, 6} and B = {1, 2, 3, 5, 7, 9} What is A ∩ B?

    (a) {1, 2, 3, 4, 5, 6, 7, 9}

    (b) {1, 2, 3, 5}

    (c) {4, 6, 7, 9}

    (d) { }

15. If Set A = MICHAEL and Set B = JORDAN, what is A ∪ B?

    (a) {MICHAELJORDAN}

    (b) {MICHAELJORDN}

    (c) {A}

    (d) { }