ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

CLASS 8

SUBJECT – Arithmetic **Work sheet 2**

Marks: 15 **SETS(continued)** **Date:8.4.2020**

Answer all the following questionsquestions(1×15=15)

1. Which of the following is subset of set {1, 2, 3, 4}.
   a) {1, 2}
   b) {1, 2, 3}
   c) {1}
   d) All of the mentioned

2. A = {ø,{ø},2,{2,ø},3} ,which of the following is true.
   a) {{ø,{ø}} ∈ A
   b) {2} ∈ A
   c) ø ⊂ A
   d) 3 ⊂ A

3. Subset of the set A= { } is:
   a) A
   b) {}
   c) ø
   d) All of the mentioned

4. What is the cardinality of the set of odd positive integers less than 10?
   a) 10
   b) 5
   c) 3
   d) 20

5. The union of the sets {1, 2, 5} and {1, 2, 6} is the set _____
   a) {1, 2, 6, 1}
   b) {1, 2, 5, 6}
   c) {1, 2, 1, 2}
   d) {1, 5, 6, 3}

6. The intersection of the sets {1, 2, 5} and {1, 2, 6} is the set _____
   a) {1, 2}
   b) {5, 6}
   c) {2, 5}

d) {1, 6}

7. . Two sets are called disjoint if there _____ is the empty set.
   a) Union
   b) Difference
   c) Intersection
   d) Complement

8. Which of the following two sets are disjoint?
   a) {1, 3, 5} and {1, 3, 6}
   b) {1, 2, 3} and {1, 2, 3}
   c) {1, 3, 5} and {2, 3, 4}
   d) {1, 3, 5} and {2, 4, 6}

9. The difference of {1, 2, 3} and {1, 2, 5} is the set _____
   a) {1}
   b) {5}
   c) {3}
   d) {2}

10. The complement of the set A is _____
    a) A – B
    b) U – A
    c) A – U
    d) B – A

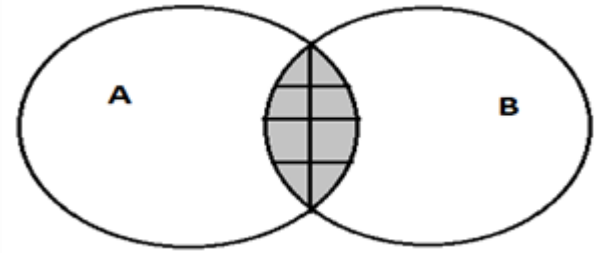
11. The set difference of the set A with null set is _____
    a) A
    b) null
    c) U
    d) B

12. Let the set A is {1, 2, 3} and B is {2, 3, 4}. Then number of elements in A U B is
    a) 4
    b) 5
    c) 6
    d) 7

13. Let the set A is {1, 2, 3} and B is { 2, 3, 4}. Then number of elements in A ∩ B is
    a) 1
    b) 2
    c) 3
    d) 4

14. Let A be set of all prime numbers, B be the set of all even prime numbers, C be the set of all odd prime numbers, then which of the following is true?
    a) A ≡ B U C
    b) B is a singleton set.
    c) A ≡ C U {2}
    d) All of the mentioned

15. The shaded area of figure is best described by



a) A ∩ B
b) A U B
c) A
d) B

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