



## **ST. LAWRENCE HIGH SCHOOL**

A JESUIT CHRISTIAN MINORITY INSTITUTION

## CLASS 8 SUBJECT - Arithmetic Work sheet11 Marks: 15 SETS Date:20.2.2021

## Answer all thefollowing 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.  $A = \{\emptyset, \{\emptyset\}, 2, \{2, \emptyset\}, 3\}$ , which of the following is true.
  - a) {{∅,{∅}} ∈ A b) {2} ∈ A c) ∅⊂ 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  $\cap$  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



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