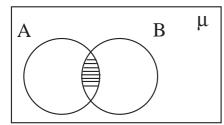
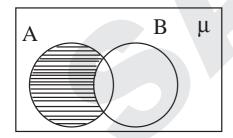
## 2. SETS

- 1. The symbol for a Universal Set is\_\_\_\_\_
- 2. If  $A = \{a, b, c\}$ , the number of subsets of A is \_\_\_\_\_
- 3. The set builder form of  $A \cap B$  is \_\_\_\_\_
- 4. For every set A,  $A \cap \phi = \underline{\hspace{1cm}}$
- 5. Two Sets A and B are said to be disjoint if \_\_\_\_\_
- 6. The Shaded region in the adjacent figure is \_\_\_\_\_



- 7.  $A = \{x: x \text{ is a circle in a give plane} \}$  is \_\_\_\_\_
- 8.  $n(A \cup B) =$ \_\_\_\_\_
- 9. If A is subset of B, then A-B =
- 10. If  $A = \{1, 2, 3, 4, 5\}$  then the cardinal number of A is \_\_\_\_\_
- 11.  $A = \{2, 4, 6, 8, 10\}, B = \{1, 2, 3, 4, 5\}$  then B-A =
- 12. If  $A \subset B$  then  $A \cap B = \underline{\hspace{1cm}}$
- 13. If  $A \subset B$  then  $A \cup B = \underline{\hspace{1cm}}$
- 14. The shaded region in the given figure represents \_\_\_\_\_



- 15. The Symbol for null set is = \_\_\_\_
- 16. Roster form of  $\{x: x \in \mathbb{N}, 9 \le x \le 16\}$  is \_\_\_\_\_
- 17. If  $A \subset B$  and  $B \subset A$  then \_\_\_\_
- 18. If A⊂B and B⊂C then \_\_\_\_
- 19.  $A \cup \phi =$ \_\_\_\_
- 20. The Set theory was developed by \_\_\_\_\_
- 21. If n(A) = 7, n(B) = 8,  $n(A \cap B) = 5$  then  $n(A \cup B) = _____$
- 22. A set is a \_\_\_\_ collection of objects.
- 23. Every set is \_\_\_\_ of it self.

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- 24. The number of elements in a set is called the \_\_\_\_ of the set
- 25.  $A = \{ 2, 4, 6, \ldots \}, B = \{1, 3, 5, \ldots \}$  then  $n(A \cap B) = \underline{\hspace{1cm}}$
- 26. A and B are disjoint sets then  $A-B = \underline{\hspace{1cm}}$
- 27. If  $A \cup B = A \cap B$  then = \_\_\_\_\_
- 28.  $A = \{ x: x^2 = 4 \text{ and } 3x = 9 \} \text{ is a } \underline{\hspace{1cm}} \text{ set}$
- 29.  $A = \{2, 5, 6, 8\}$  and  $B = \{5, 7, 9, 1\}$  then  $A \cup B = \underline{\hspace{1cm}}$
- 30. If  $A \subset B$ , n(A) = 3, n(B) = 5, then  $n(A \cap B) =$ \_\_\_\_
- 31. If  $A \subset B$ , n(A) = 3, n(B) = 5, then  $n(A \cup B) =$
- 32. A, B are disjoint sets then  $(A-B) \cap (B-A) = \underline{\hspace{1cm}}$
- 33.  $A = \{1, 2, 3, 4\}$  and  $B = \{2, 4, 6, 8\}$  then B A =
- 34. Set builder form of  $A \cup B$  is = \_\_\_\_

## **ANSWERS**

- 1)  $\mu$ ; 2) 8; 3) {x:x \in A and x \in B}; 4)  $\phi$ ;
- 5)  $A \cap B = \emptyset$ ; 6)  $A \cap B$ ; 7) Infinite Set;
- 8)  $n(A)+ n(B)- n(A \cap B)$ ; 9)  $\phi$ ; 10) 5;
- 11) {1, 3, 5}; 12) A; 13) B; 14) A–B;
- 15)  $\phi$ ; 16) {9, 10, 11, 12, 13, 14, 15, 16}; 17) A = B; 18)  $A \subset C$ ;
- 19) A; 20) George Cantor; 21) 10; 22) Well defined;
- 23) Subset; 24) cardinal number; 25) 0; 26) A; 27) A = B; 28) Null Set;
- 29) {1, 2, 5, 6, 7, 8, 9}; 30) 3; 31) 5;
- 32)  $\phi$ ; 33)  $\{6, 8\}$ ; 34)  $\{x: x \in A \text{ or } x \in B\}$