

**M MALA BT ASSISTANT MATHS
GGHS B THURINJIPATTY**



Multiple Choice Questions

1. Which of the following is correct?
 (1) $\{7\} \in \{1,2,3,4,5,6,7,8,9,10\}$ (2) $7 \in \{1,2,3,4,5,6,7,8,9,10\}$
 (3) $7 \notin \{1,2,3,4,5,6,7,8,9,10\}$ (4) $\{7\} \not\subseteq \{1,2,3,4,5,6,7,8,9,10\}$
2. The set $P = \{x \mid x \in \mathbb{Z}, -1 < x < 1\}$ is a
 (1) Singleton set (2) Power set (3) Null set (4) Subset
3. If $U = \{x \mid x \in \mathbb{N}, x < 10\}$ and $A = \{x \mid x \in \mathbb{N}, 2 \leq x < 6\}$ then $(A')'$ is
 (1) $\{1, 6, 7, 8, 9\}$ (2) $\{1, 2, 3, 4\}$ (3) $\{2, 3, 4, 5\}$ (4) $\{ \}$
4. If $B \subseteq A$ then $n(A \cap B)$ is
 (1) $n(A - B)$ (2) $n(B)$ (3) $n(B - A)$ (4) $n(A)$
5. If $A = \{x, y, z\}$ then the number of non- empty subsets of A is
 (1) 8 (2) 5 (3) 6 (4) 7
6. Which of the following is correct?
 (1) $\emptyset \subseteq \{a, b\}$ (2) $\emptyset \in \{a, b\}$ (3) $\{a\} \in \{a, b\}$ (4) $a \subseteq \{a, b\}$
7. If $A \cup B = A \cap B$, then
 (1) $A \neq B$ (2) $A = B$ (3) $A \subset B$ (4) $B \subset A$
8. If $B - A$ is B , then $A \cap B$ is
 (1) A (2) B (3) U (4) $\emptyset$
9. From the adjacent diagram $n[P(A \Delta B)]$ is
 (1) 8 (2) 16
 (3) 32 (4) 64
10. If $n(A) = 10$ and $n(B) = 15$, then the minimum and maximum number of elements in $A \cap B$ is
 (1) 10,15 (2) 15,10 (3) 10,0 (4) 0,10

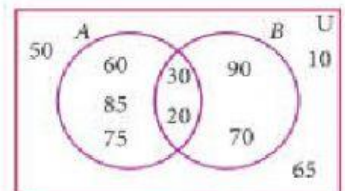


Fig. 1.40