UNIT 10 Logic and Venn Diagrams

CSEC Multiple Choice Questions

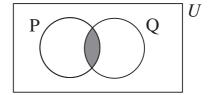
For each of these questions, choose the option (A, B, C or D) that is TRUE.

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- 1. If $U = \{1, 2, 3, \dots 10\}$ and $S = \{4, 5, 6, 7, 8\}$, then $S' = \{4, 5, 6, 7, 8\}$
 - $(A) \{ 9, 10 \}$
 - (B) $\{1, 2, 3\}$
 - (C) $\{1, 2, 39\}$
 - (D) {1, 2, 3 9 10}
- 2. If $U = \{1, 2, 3, \dots 20\}$ and S = set of prime numbers, then S = set of prime numbers
 - (A) $\{3, 5, 7, 11, 13, 17\}$
 - (B) $\{2, 3, 5, 7, 11, 13, 17, 19\}$
 - (C) $\{1, 3, 5, 7, 9, 11, 13, 15, 17, 19\}$
 - (D) $\{1, 2, 3, 5, 7, 11, 13, 17\}$
- 3. In the Venn diagram opposite, the shaded portion represents



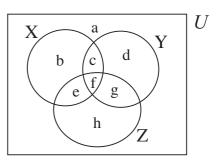
- (B) $P \cap Q'$
- (C) $P' \cap Q$
- (D) $P \cap Q$



4. In the figure opposite, $U = \{a, b, c, d, e, f, g, h\}$.

$$(X \cap Y) \cup Z =$$

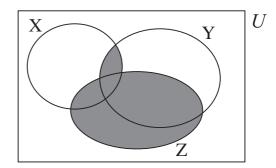
- (A) $\{c,e,f,g,h\}$
- (B) $\{e, f, g\}$
- (C) { f }
- (D) $\{c, f, h\}$



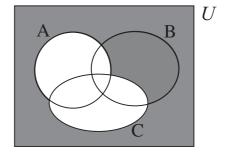
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- 5. In the figure opposite, the shaded portion represents
 - (A) $(X \cap Z) \cup Y$
 - (B) $(X \cap Y) \cup Z$
 - (C) $(X \cup Y) \cap Z$
 - (D) $(Y \cap Z) \cup X$



- 6. In the figure opposite, the shaded portion represents
 - (A) $(A \cup C) \cap B$
 - (B) $B \cup (A \cap C)$
 - (C) $(A \cup C)'$
 - (D) $A' \cup C'$



CSEC Multiple Choice Questions *ANSWERS*

- 1. D
- 2. B
- 3. D
- 4. A
- 5. B
- 6. C