

SYLLABUS : Sets

Max. Marks : 120 Marking Scheme : (+4) for correct & (-1) for incorrect answer

Time : 60 min.

INSTRUCTIONS : This Daily Practice Problem Sheet contains 30 MCQs. For each question only one option is correct. Darken the correct circle/ bubble in the Response Grid provided on each page.

1. Let $A = \{(1, 2), (3, 4), 5\}$, then which of the following is incorrect?
 - (a) $\{3, 4\} \notin A$ as $(3, 4)$ is an element of A
 - (b) $\{5\}, \{(3, 4)\}$ are subsets of A but not elements of A
 - (c) $\{1, 2\}, \{5\}$ are subsets of A
 - (d) $\{(1, 2), (3, 4), 5\}$ is subset of A
2. A market research group conducted a survey of 1000 consumers and reported that 720 consumers liked product A and 450 consumers liked product B. What is the least number that must have liked both products ?
 - (a) 170
 - (b) 280
 - (c) 220
 - (d) None of these
3. One of the partitions of the set $\{1, 2, 5, x, y, \sqrt{2}, \sqrt{3}\}$ is
 - (a) $\{\{1, 2, x\}, \{x, 5, y\}, \{\sqrt{2}, \sqrt{3}\}\}$
 - (b) $\{\{1, 2, \sqrt{2}\}, \{x, y, \sqrt{2}\}, \{5, \sqrt{2}, \sqrt{3}\}\}$
 - (c) $\{\{1, 2\}, \{5, x\}, \{\sqrt{2}, \sqrt{3}\}\}$
 - (d) $\{\{1, 2, 5\}, \{x, y\}, \{\sqrt{2}, \sqrt{3}\}\}$
4. Let A and B be two sets then $(A \cup B)' \cup (A' \cap B)$ is equal to
 - (a) A'
 - (b) A
 - (c) B'
 - (d) None of these