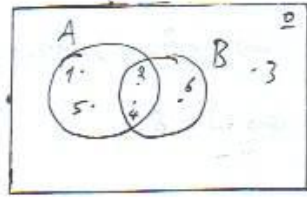


1506

α)



$$A \cup B = \{1, 2, 3, 4, 5, 6\}$$

$$A \cap B = \{2, 3, 4\}$$

$$A' = \{3, 6\}$$

$$B' = \{1, 5\}$$

β) $\mathcal{N}(\Omega) = 6$

(i) $\mathcal{N}(A') = 2 \Rightarrow P(A') = \frac{\mathcal{N}(A')}{\mathcal{N}(\Omega)} = \frac{2}{6} = \frac{1}{3}$

(ii) $\mathcal{N}(A \cap B) = 2 \Rightarrow P(A \cap B) = \frac{\mathcal{N}(A \cap B)}{\mathcal{N}(\Omega)} = \frac{2}{6} = \frac{1}{3}$

(iii) $\mathcal{N}(A \cup B) = 5 \Rightarrow P(A \cup B) = \frac{\mathcal{N}(A \cup B)}{\mathcal{N}(\Omega)} = \frac{5}{6}$