MODEL ACTIVITY TASKS CLASS – XI MATHEMATICS

Write the answers to the following questions:

- 1. If In is a set of first n natural numbers then show that $I_6 \cup (I_8 I_5) = I_8$.
- 2. By algebra of sets, prove that $A \cup (A \cap B) = A$.
- 3. If A, B and C are three finite sets then prove that $A \cup (B \cap C) = (A \cup B) \cap (A \cup C)$.
- 4. Using set theory, show that $(A \cup B) \cup (A' \cap B')$ is a universal set.