

# Section B

$$1. a) X_1 = \{1, 3, 4, 5, 6, 6, 7, 7, 9\} = \boxed{I \text{ for } X_1}$$

median = 6     $Q_2 = 4$      $Q_3 = 7$

$$X_2 \text{ median} = 6 \quad Q_2 = 5 \quad Q_3 = 7 = \boxed{H \text{ for } X_2}$$

$$X_3 \text{ median} = 5 \quad Q_2 = 2 \quad Q_3 = 6 = \boxed{A \text{ for } X_3}$$

$$X_4 \text{ median} = 5 \quad Q_2 = 4 \quad Q_3 = 6 = \boxed{F \text{ for } X_4}$$

$$X_5 \text{ median} = 6 \quad Q_2 = 3 \quad Q_3 = 7 = \boxed{E \text{ for } X_5}$$

$$X_6 \text{ median} = 5 \quad Q_2 = 3 \quad Q_3 = 6 = \boxed{C \text{ for } X_6}$$

$$b) X_7 = \{1, 3, 3, 5, 5, 6, 6, 7, 8, 10, 11\} \quad Q_2 = 3 \quad Q_3 = 6 \quad Q_4 = 8$$

median = 6     $Q_3 = 8$

$$\boxed{\text{median} = 6, Q_3 = 8}$$

