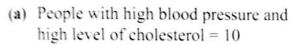
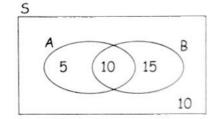
QUESTION 9 (25 MARKS)

4: People with high blood pressure

B: High level of cholesterol





(b)
$$P(\text{High BP}) = \frac{15}{40} = \frac{3}{8}$$

(c)
$$P(\text{High level of cholesterol}) = \frac{25}{40} = \frac{5}{8}$$

(d)
$$P(\text{High BP } and \text{ high level of cholesterol}) = \frac{10}{40} = \frac{1}{4}$$

(e)
$$P(\text{High BP } or \text{ high level of cholesterol}) = \frac{30}{40} = \frac{3}{4}$$

(f)
$$P(A \text{ or } B) = \frac{3}{4}$$

 $P(A) + P(B) - P(A \text{ and } B) = \frac{3}{8} + \frac{5}{8} - \frac{1}{4} = \frac{3}{4}$