

Q-3

Ans

Applying bayes theorem

$$P(a/b) = \frac{P(b/a) \times P(a)}{P(b)}$$

$$P(b/a) = 1/6$$

$$P(a) = 2/3$$

$$P(b) = \frac{1}{6}$$

$$P(a/b) = \frac{1/6 \times 2/3}{1/6}$$

$$= 0.666$$