

$$V^{ac}(s_1) = 1 + \frac{3}{4} \times V^{ac}(s_1) \Rightarrow \boxed{V^{ac}(s_1) = 4}$$

17D070026
ANUBHAV
AGARWAL

$$V^{ac}(s_2) = Q^{ac}(c, s_2) = 0.5 \left(2 + \frac{3}{4} \times V^{ac}(s_2) \right) + 0.5 \left(2 + \frac{3}{4} \times 4 \right)$$

$$\frac{5}{8} V^{ac}(s_2) = 3.5 \Rightarrow \boxed{V^{ac}(s_2) = 5.6}$$

$$Q^{ac}(a, s_1) = V^{ac}(s_1) = 4$$

$$Q^{ac}(b, s_1) = 2 + \frac{3}{4} \cdot V^{ac}(s_2) = 2 + \frac{3}{4} \times 5.6 = 6.2$$

$$Q^{ac}(c, s_1) = 0.5 \left(3 + \frac{3}{4} \times 4 \right) + 0.5 \left(3 + \frac{3}{4} \times 5.6 \right) = \underline{\underline{6.6}}$$

$$\boxed{IA(ac, s_1) = b, c}$$

$$Q^{ac}(a, s_2) = 1 + \frac{3}{4} \times V^{ac}(s_1) = 1 + \frac{3}{4} \times 4 = 4$$

$$Q^{ac}(b, s_2) = 2 + \frac{3}{4} \times V^{ac}(s_2) = 2 + \frac{3}{4} \times 5.6 = 6.2$$

$$Q^{ac}(c, s_2) = V^{ac}(s_2) = 5.6$$

$$\boxed{IA(ac, s_2) = b}$$