



$$\Delta V = 5 \text{ kV}$$

$$\frac{1}{C_{eq}} = \frac{1}{20} + \frac{1}{40}$$

$$\frac{40 + 20}{40 \times 20}$$

$$\frac{40 \times 20}{2 \times 600}$$

$$C = \frac{40}{3} \text{ nF}$$

$$V = 5 \text{ kV}$$

$$Q = CV$$

$$= \frac{40 \times 5}{3} = \frac{200}{3}$$

$$= \frac{40}{3}$$