

ΕΝΔΕΙΚΤΙΚΕΣ ΑΠΑΝΤΗΣΕΙΣ

ΘΕΜΑ 4^ο

$$4.1 \ C_{o\lambda} = C_1 + C_2 + C_3 \Rightarrow C_{o\lambda} = 4\ \mu\text{F} + 8\ \mu\text{F} + 12\ \mu\text{F} \Rightarrow C_{o\lambda} = 24\ \mu\text{F}$$

$$4.2 \ U_1 = U_2 = U_3 = U \Rightarrow U_1 = U_2 = U_3 = 10\text{V}$$

$$4.3 \ C_{o\lambda} = \frac{Q_{o\lambda}}{U} \Rightarrow Q_{o\lambda} = C_{o\lambda} \cdot U \Rightarrow Q_{o\lambda} = 24\ \mu\text{F} \cdot 10\text{V} \Rightarrow Q_{o\lambda} = 240\ \mu\text{C}$$

$$4.4 \ C_1 = \frac{Q_1}{U} \Rightarrow Q_1 = C_1 \cdot U \Rightarrow Q_1 = 4\ \mu\text{F} \cdot 10\text{V} \Rightarrow Q_1 = 40\ \mu\text{C}$$

$$C_2 = \frac{Q_2}{U} \Rightarrow Q_2 = C_2 \cdot U \Rightarrow Q_2 = 8\ \mu\text{F} \cdot 10\text{V} \Rightarrow Q_2 = 80\ \mu\text{C}$$

$$C_3 = \frac{Q_3}{U} \Rightarrow Q_3 = C_3 \cdot U \Rightarrow Q_3 = 12\ \mu\text{F} \cdot 10\text{V} \Rightarrow Q_3 = 120\ \mu\text{C}$$