

حل التمرين 20

$$I = \frac{2 \times 3^2 \times 7^2 \times 0,3 \times 10^{4-5+8-4}}{25 \times 21 \times 6,3 \times 10^{5-4+3}}$$

$$I = \frac{2 \times 3^2 \times 7^2 \times 3 \times 10^{-1} \times 10^3}{5^2 \times 7 \times 3 \times 7 \times 0,9 \times 10^4}$$

$$I = \frac{2 \times 3^3 \times 7^2 \times 10^2}{5^2 \times 3 \times 7^2 \times 9 \times 10^3}$$

$$I = \frac{2 \times \cancel{3} \times 10^2}{5^2 \times \cancel{3} \times 10^3} = \frac{2 \times 1}{5^2 \times 10}$$

$$I = \frac{1}{5^3} = 5^{-3} \text{ أي } I = \frac{2}{5^2 \times 5 \times 2}$$

$$J = \frac{1,3 \times 8 \times 9 \times 6,7 \times 10^4}{5 \times 10^{-3} \times 2,6 \times 10^3 \times 10,05}$$

$$J = \frac{13 \times 8 \times 9 \times 6,7 \times 10^3}{5 \times 2 \times 13 \times 10^{-1} \times 10,05}$$

$$J = \frac{8 \times 9 \times 6,7 \times 10^3}{10 \times 10^{-1} \times 6,7 \times 1,5}$$

$$J = \frac{8 \times 3 \times 3 \times 10^3}{3 \times 5 \times 10^{-1}}$$

$$J = \frac{24 \times 10^4}{5}$$

$$J = 4,8 \times 10^4$$

$$K = \frac{(10 + 2 + 3) \times 10^{-2}}{(11 \times 10 + 11 + 2) \times 10^{-3}}$$

$$K = \frac{15}{123} \times 10^{-2+3}$$

$$K = \frac{15}{123} \times 10$$

$$K = \frac{150}{123}$$