

## QUESTION 9

- (i) Coulomb's law states that the electric force between two point charges,  $q_1$  and  $q_2$  separated by a distance  $r$ , is directly proportional to the product of the charges and inversely proportional to the square of the distance between the charges.

(ii) Given:  $r = 5.2 \times 10^{-11} \text{ m}$   
 $k = 9.0 \times 10^9 \text{ N m}^2 \text{ C}^{-2}$   
 $q_1 = q_2 = 1.6 \times 10^{-19} \text{ C} = e$

~~Force of attraction~~

Electrostatic force,  $F = \frac{k q^2}{r^2}$

$$F = \frac{9.0 \times 10^9 \times (1.6 \times 10^{-19})^2}{(5.2 \times 10^{-11})^2}$$

$$F = \cancel{2.576} \times 0.852 \times 10^{-16} \text{ N}$$

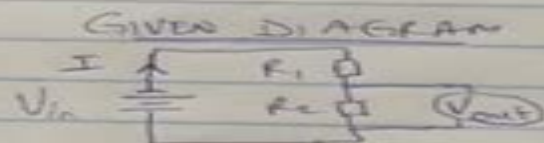
$$\text{or } F = 8.52 \times 10^{-17} \text{ N}$$

(bi) Current,  $I = \frac{V_{in}}{R_1 + R_2}$

$$I = I_{R_1} = I_{R_2}$$

$$V_{out} = V_{R_2} = I_{R_2} \times R_2$$

$$V_{out} = \frac{V_{in}}{R_1 + R_2} \times R_2 = V_{in} \left[ \frac{R_2}{R_1 + R_2} \right]$$



II) Given:  $\frac{V_{in}}{V_{out}} = \frac{R_1 + R_2}{R_2} = 2.5$  (where  $R_2 = 30 \Omega$ )

$$\frac{R_1 + 30}{30} = 2.5$$

$$R_1 + 30 = 75$$

$$R_1 = 75 - 30 = 45 \Omega$$

- (ci) The volt is the work done <sup>of one joule</sup> in taking one coulomb of positive charge from one point to another.

# Today S Waec Physics Essay And Objectives

**Mavis Kitcher (Mrs)**



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