

- Fig. 8.1 shows a high-voltage supply connected across two metal plates.



Fig. 8.1

- When the supply is switched on, an electric field is present between the plates.
- Explain what is meant by an electric field. *Area in which force is produced on any charged body. Charge on two plates is +ve and -ve.*
 - On Fig. 8.1, draw the electric field lines between the plates and indicate their direction by arrows. *Electric field lines are drawn from the positive plate to the negative plate.*
 - The metal plates are now joined by a high-resistance wire. A charge of 0.001 C passes along the wire in 30 s . Calculate the reading on the ammeter.

$$Q = It$$

$$0.001 = I \times 30$$

$$I = \frac{0.001}{30} = 3.3 \times 10^{-5}\text{ A}$$
ammeter reading = $3.3 \times 10^{-5}\text{ A}$
 - The potential difference of the supply is reset to 1500 V and the ammeter reading changes to 0.0080 A . Calculate the energy supplied at 10% . (Show your working.)

$$Q = 0.0080 \times 10 = 0.08\text{ C}$$

$$E = VI$$

$$= 1500 \times 0.0080 \times 10$$

$$= 120\text{ J}$$
energy = 120 J

- Fig. 8.2 shows a NOT gate. Label the inputs and the output.



- State whether the output of a NOT gate will be high (ON) or low (OFF) when:
 (i) one input is high and one input is low. *OFF*
 (ii) both inputs are high. *OFF*
- Fig. 8.3 shows a digital circuit made from three NOT gates and one NAND gate.

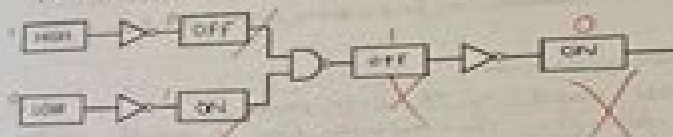


Fig. 8.3

- State HIGH or LOW in each of the boxes in Fig. 8.3.
- State the effect on the output of changing both of the inputs.

Answer: *High*

[Turn over]

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N Colangelo



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