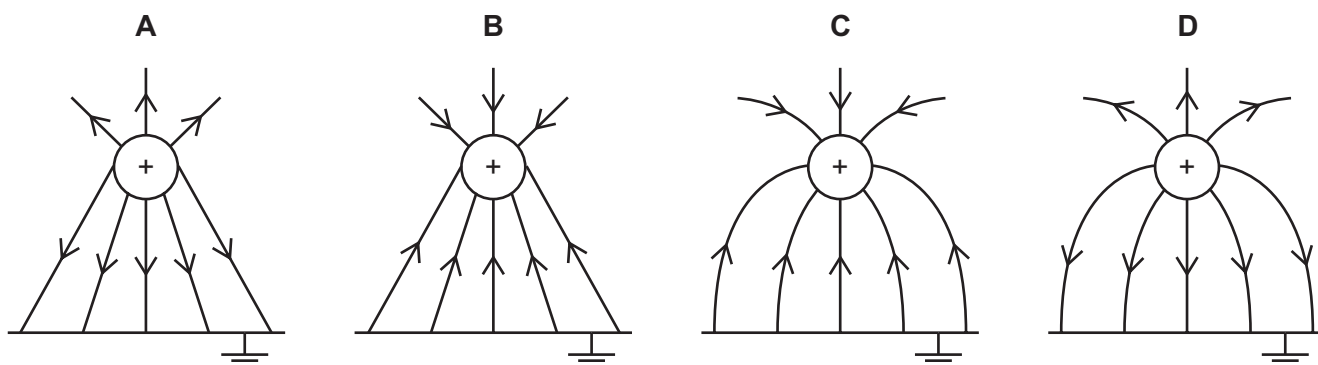


- 26 An electron is situated in a uniform electric field as shown in the diagram.



What is the direction of the electric force acting on the electron?

- A downwards into the paper
  - B upwards out of the paper
  - C to the left
  - D to the right
- 27 Which diagram shows the electric field between a positively charged metal sphere and an earthed metal plate?



- 28 Which electrical quantity would be the result of a calculation in which energy transfer is divided by charge?
- A current
  - B potential difference
  - C power
  - D resistance
- 29 Two heating coils X and Y, of resistance  $R_X$  and  $R_Y$  respectively, deliver the same power when 12 V is applied across X and 6 V is applied across Y.

What is the ratio  $R_X/R_Y$ ?

- A  $\frac{1}{4}$
- B  $\frac{1}{2}$
- C 2
- D 4