

Answer **all** the questions in the spaces provided.

- 1 (a) The ampere, metre and second are SI base units.

State **two** other SI base units.

1.

2.

[2]

- (b) The average drift speed v of electrons moving through a metal conductor is given by the equation:

$$v = \frac{\mu F}{e}$$

where e is the charge on an electron

F is a force acting on the electron

and μ is a constant.

Determine the SI base units of μ .

SI base units [3]

[Total: 5]