

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

- 1 (a) Underline **all** the base quantities in the following list.

ampere charge current mass second temperature weight [2]

- (b) The potential energy E_p stored in a stretched wire is given by

$$E_p = \frac{1}{2}C\sigma^2V$$

where C is a constant,

σ is the strain,

V is the volume of the wire.

Determine the SI base units of C .

base units[3]