

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

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

where  $C$  is a constant,

$\sigma$  is the strain.

$V$  is the volume of the wire.

Determine the SI base units of  $C$ .

base units ..... [3]