

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

For  
Examiner's  
Use

- 1 (a) (i) Define *pressure*.

.....  
..... [1]

- (ii) State the units of pressure in base units.

..... [1]

- (b) The pressure  $p$  at a depth  $h$  in an incompressible fluid of density  $\rho$  is given by

$$p = \rho gh,$$

where  $g$  is the acceleration of free fall.

Use base units to check the homogeneity of this equation.

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.....  
.....  
..... [3]