

- 4 (a) Explain why exposure to steam at  $100\text{ }^{\circ}\text{C}$  produces a more severe burn than exposure to the same amount of hot water at  $100\text{ }^{\circ}\text{C}$ .

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- (b) For each of the following statements, explain whether it is correct, stating clearly your reasons.

- (i) The specific latent heat of fusion of a substance is always less than the specific latent heat of vaporisation of the substance.

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- (ii) For the same mass, volume and temperature, the pressure exerted by a real gas is the same as that exerted by an ideal gas.

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