Qu. 6 See chart

(a) 0·0126 kg/kg d.a.

(b) 62·5 %

(c) 17·5 °C

(d) 0·861 m^3/kg d.a.

(e) 57 kJ/kg d.a.

Qu. 7 See chart

(a) 45 %

(b) 0·0054 kg/kg d.a.

(c) 10·8 °C

(d) $\omega_1 - \omega_2 = 0{\cdot}0126 - 0{\cdot}0054 = \underline{0{\cdot}0072}$ kg/kg d.a.

(e) $Q_{cooling} = h_2 - h_1 = 19 - 57 = \underline{-38}$ kJ/kg d.a.

$Q_{heating} = h_3 - h_2 = 31 - 19 = \underline{12}$ kJ/kg d.a.