

ENGINEERING TRIPOS PART IIA 2006
MODULE 3A5 – THERMODYNAMICS AND POWER GENERATION

ANSWERS

- 1 (a) (i) 10.52 MW (ii) 9.63 MW, 0.34 MW, 0.39 MW, 0.16 MW
- 2 (d) 130.7 kJ
- 3 (c) 21.12
(d) (i) 821.4 K (ii) 51.5 (iii) 430.0 kJ/kg air (iv) 0.462, 0.443
- 4 (b) 1442.3 kJ/kg, 0.437
(c) 0.198, 1321.1 kJ/kg, 0.470
(d) 1368.0 kJ/kg, 0.487

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