

Reg. No. :

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**H 2426**

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2009

Second Semester

Mechanical Engineering

ME 132 — THERMODYNAMICS

Time : Three hours

Maximum : 100 marks

(Use of thermodynamic tables permitted)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Write the difference between open and closed systems.
2. State 'Zeroth law of thermodynamics'.
3. Name the processes in Carnot cycle.
4. What is the relationship between COP of the heat pump and refrigerator?
5. Define 'Mole fraction'.
6. State the laws of perfect gas.
7. What is super saturated steam?
8. Find the specific volume, enthalpy and entropy of saturated steam at 10 bar.
9. What is meant by 'Adiabatic flame temperature'?
10. What is the mass of carbon-dioxide from one kg of carbon combustion?

PART B — (5 × 16 = 80 marks)

11. (a) Determine the heat transfer and its direction for a system in which a perfect gas having molecular weight of 16 is compressed from 101.3 kPa, 20°C to a pressure of 600 kPa following the law  $Pv^{1.2} = \text{constant}$ . Take specific heat at constant pressure of gas as 1.7 kJ/kgK. (16)

Or

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**Tobias Bleicker**



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