Reg. No. :

H 2426

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

Second Semester

Mechanical Engineering

ME 132 - THERMODYNAMICS

Time: Three bours

Maximum: 100 marks

(Use of thermodynamic tables permitted)

Answer ALL questions:

PART A - (10 × 2 = 20 marks)

- 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?
- 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 Po<sup>1.3</sup> = constant. Take specific heat at constant pressure of gas as 1.7 kJ/kgK. (16)

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