# Important Note: 1. On completing your answers, computedly draw diagonal cross then on the nonalising blank pages. 2. Any revealing of identification, appeal to evaluater and for equations written eg. 42×8 = 50, will be treated as malpractice.

# Fourth Semester B.E. Degree Examination, December 2011 Applied Thermodynamics

Time: 3 hrs. Max. Marks:100

### Note: I. Answer any FIVE full questions, selecting at least TWO questions from each part.

- 2. Use of thermodynamic data handbook/charts/tables is permitted.
- 3. Any missing data may be assumed suitably.

### PART - A

- a. Distinguish between: i) Theoretical air and excess air
   ii) Higher calorific value and lower calorific value. (04 Marks)
  - b. Define the terms:

    i) Enthalpy of formation

    ii) Enthalpy of combustion

    iii) Adiabatic flame temperature

    iv) Combustion efficiency (04 Marks)
  - Find the stoichiometric air for the combustion of gaseous propane (C<sub>3</sub>H<sub>8</sub>) on mass basis and molar basis.
  - d. 4.4 kg propane gas is burnt completely with 3.0 kmol of air. Find the excess air and the molar analysis of the dry combustion products. (08 Marks)
- With the help of P-V and T-S diagrams, derive an expression for the air standard efficiency of a diesel cycle.
  - Compare the Otto and Diesel sycles, on the basis of same compression ratio and same heat inputs, with the help of T-S and P-V diagrams. (04 Marks)
  - c. A four stroke, four cylinder petrol engine of 250mm bore and 375mm stroke works on the Otto cycle. The clearance volume is 0.01052m<sup>3</sup>. The initial pressure and temperature are 1 bar and 47°C. If the maximum pressure is limited to 25bar, find the following:

     i) Air standard efficiency
     ii) Mean effective pressure.
- a. Derive an expression for the optimum pressure ratio, for the maximum network output, in an Brayton cycle. What is the corresponding cycle efficiency? (06 Marks)
  - b. What are the methods of improving the efficiency of Brayton cycle? (02 Marks)
  - c. In a reheat gas turbine cycle, comprising one compressor and two turbines, air is compressed from 1 bar, 27°C to 6 bar. The highest temperature in the cycle is 900°C. The expansion in the first stage turbine is such that the work from it just equals the work required by the compressor. Air is reheated between the two stages of expansion to 850°C. Assume that the isentropic efficiency of the compressor, the first stage and the second stage turbines are 85% each and that the working substance is air. Calculate the cycle efficiency. (12 Marks)
- Discuss the effect of i) Boiler pressure and ii) Condenser pressure, on the performance of a Rankine cycle.

  (04 Marks)
  - Explain the working of the regenerative Rankine cycle with one feed-water heater. (04 Marks)
  - c. In a reheat cycle, steam at 500°C expands in a HP turbine till it is saturated vapour. It is then reheated at constant pressure to 400°C and then expanded in a LP turbine to 40°C. If the maximum moisture content at the turbine exhaust is limited to 15% find, i) the reheat pressure, ii) the pressure of steam at the inlet to the HP turbine. iii) the net specific work output iv) the cycle efficiency v) the steam rate. Assume all the ideal processes. (12 Marks)

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**IM Harris** 

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