

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

Time: 3 hrs.

Max. Marks:100

Note: 1. 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

1. 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)
 c. Find the stoichiometric air for the combustion of gaseous propane (C_3H_8) on mass basis and molar basis. (04 Marks)
 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)
2. a. With the help of P-V and T-S diagrams, derive an expression for the air standard efficiency of a diesel cycle. (08 Marks)
 b. Compare the Otto and Diesel cycles, 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 $0.01052m^3$. The initial pressure and temperature are 1 bar and $47^\circ C$. If the maximum pressure is limited to 25bar, find the following:
 i) Air standard efficiency ii) Mean effective pressure. (08 Marks)
3. 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, $27^\circ C$ to 6 bar. The highest temperature in the cycle is $900^\circ C$. 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 $850^\circ C$. 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)
4. a. Discuss the effect of i) Boiler pressure and ii) Condenser pressure, on the performance of a Rankine cycle. (04 Marks)
 b. Explain the working of the regenerative Rankine cycle with one feed-water heater. (04 Marks)
 c. In a reheat cycle, steam at $500^\circ C$ expands in a HP turbine till it is saturated vapour. It is then reheated at constant pressure to $400^\circ C$ and then expanded in a LP turbine to $40^\circ C$. 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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