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06ME43

Fourth Semester B.E. Degree Examination, June 2012
Applied Thermodynamics

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer FIVE full questions, selecting at least TWO questions from each part.
2. Use of thermodynamics data handbook is permitted.

PART – A

1. a. Define the following :
 i) Enthalpy of reaction
 ii) Heat of formation
 iii) Higher calorific value
 iv) Enthalpy of formation. (08 Marks)
- b. Find the stoichiometric air for the combustion of gaseous propane (C_3H_8) on mass basis and molar basis. (04 Marks)
- c. The products of combustion of hydrocarbon fuel of unknown composition have the following composition as measured on dry basis.
 $CO_2 = 8.0\%$, $CO = 0.9\%$, $O_2 = 8.8\%$, $N_2 = 82.3\%$
 Calculate :
 i) Air fuel ratio
 ii) Composition of fuel on mass basis
 iii) The percentage of theoretical air on mass basis. (08 Marks)
2. a. With the help of superimposed P-V and T-S diagrams compare the efficiencies of air standard Otto cycle and diesel cycles for same state of air before compression and same maximum pressure and temperature in both the cycles. (08 Marks)
- b. The compression ratio for a single cylinder engine operating on dual cycle is 8. The max pressure in the cycle is limited to 55 bar. The pressure and temperature of the air at the beginning of the cycle are 1 bar and $27^\circ C$. Heat is added during constant pressure process upto 3% of the stroke. Assuming the diameter as 25 cm and stroke as 30 cm, find the following :
 i) The work done per cycle
 ii) The air-standard efficiency of the cycle
 iii) The power developed if number of working cycles are 200/ min. (12 Marks)
3. a. What are the methods used for improvement of thermal efficiency of simple open cycle constant pressure gas turbine plants? Explain any one in detail. (10 Marks)
- b. In a jet propulsion cycle, air enters the compressor at 1 bar and $15^\circ C$. The pressure leaving the compressor is 5 bar and the max. temperature is $900^\circ C$. The air expands in the turbine to such a pressure that the turbine work is just equal to the compressor work. On leaving the turbine, the air expands in a reversible adiabatic process in a nozzle to 1 bar. Calculate the velocity of air leaving the nozzle.
 Take $C_p = 1.0035$ and $\gamma = 1.4$ for compressor and expansion processes. (10 Marks)
4. a. Sketch the flow diagram and corresponding temperature entropy diagram of the reheat vapor cycle and derive an expression for the reheat cycle efficiency. What are the advantages gained by reheating the steam in between stages? (10 Marks)
- b. A vapour power plant is working on closed feed water heater regenerative rankine cycle. Boiler pressure = 70 bar and $400^\circ C$; condense pressure = 0.1 bar ; steam is bled from the turbine at 10 bar. Bled stream and feed water leaves the closed feed water heater as saturated liquid. Calculate the thermal efficiency of Rankine cycle. (10 Marks)

1 of 2

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
 2. Any revealing of identification, appeal to evaluator and/or equations written up, 4x8 = 32, will be treated as malpractice.

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