

Third Semester B.E. Degree Examination, June/July 2016
Basic Thermodynamics

Time: 3 hrs.

Max. Marks:100

- Note:** 1. Answer FIVE full questions, selecting at least TWO questions from each part.
 2. Use of thermodynamic charts and Tables is permitted.

PART – A

- 1 a. Distinguish between :
- Macroscopic and Microscopic approaches
 - Diathermic and adiabatic walls
 - Intensive and extensive properties
 - Thermal equilibrium and Mechanical equilibrium
 - Quasistatic and actual process
 - Point function and path function. (12 Marks)
- b. The readings t_A and t_B of two Celsius thermometers A and B agree at the ice point (0°C) and steam point (100°C), but else where they are related by the equation $t_A = L + mt_B + nt_B^2$ where L, m and n are constants, when both the thermometers are immersed in a well stirred bath, A registers 51°C , whereas B registers 50°C . Determine the reading on B when A registers 25°C . (08 Marks)
- 2 a. Starting from a common state point, draw the following process on the PV – plane and derive an expression for the work done in each case
- Isobaric process (09 Marks)
 - Isothermal process (04 Marks)
 - Polytropic process. (07 Marks)
- b. Distinguish between heat and work in thermodynamics.
- c. A spherical balloon has an initial diameter of 25cm and contains air at 1.2 bar. Because of heating the diameter of the balloon increases to 30cm and during the heating process the pressure is found to be proportional to the diameter. Calculate the work done during the process. (07 Marks)
- 3 a. State First Law of Thermodynamics for a process and show that energy is a property of the system. (06 Marks)
- b. Derive the steady flow energy equation for a single stream of fluid entering and a single stream of fluid leaving the control volume. (06 Marks)
- c. The following expression gives the specific heat at constant pressure of a gas that undergoes a non flow constant pressure process $c_p = \left[2.5 + \frac{60}{T + 40} \right] \text{kJ/kg K}$, where T is in $^\circ\text{C}$. The pressure during the process is maintained at 2 bar and the volume changes from 0.3 to $0.56 \text{ m}^3/\text{kg}$. The corresponding change in temperature is from 25°C to 300°C . Determine
- Work done and heat added (08 Marks)
 - Change in internal energy and enthalpy.
- 4 a. State and prove that Kelvin Planck and clausius statements of second Law of Thermodynamics are equivalent. (12 Marks)
- b. A heat engine working on Carnot cycle absorbs heat from three thermal reservoirs at 1000K, 800K and 600K. The engine does 10kW of network and rejects 400kJ/min of heat to a heat sink at 300K. If the heat supplied by the reservoir at 1000K is 60% of the heat supplied by the reservoir at 600K. Make calculations for the quantity of heat absorbed by each reservoir. (08 Marks)

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Camilla Rothe



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