



PART - B

(5×13=65 Marks)

11. a) A piston-cylinder device contains 0.15 kg of air initially at 2 MPa and 350°C. The air is first expanded isothermally to 500 kPa, then compressed polytropically with a polytropic exponent of 1.2 to the initial pressure and finally compressed at the constant pressure to the initial state. Determine the boundary work for each process and the network of the cycle. (13)
- (OR)
- b) i) Air enters the compressor of a gas-turbine plant at ambient conditions of 100 kPa and 25°C with a low velocity and exits at 1 MPa and 347°C with a velocity of 90 m/s. The compressor is cooled at a rate of 1500 kJ/min and the power input to the compressor is 250 kW. Determine the mass flow rate of air through the compressor. Assume $C_p = 1.005$ kJ/kg K. (7)
- ii) Derive steady flow energy equation. (6)
12. a) i) Discuss about clausius inequality. (7)
- ii) With suitable examples explain high and low grade energy. (6)
- (OR)
- b) Two kg of air at 500 kPa, 80°C expands adiabatically in a closed system until its volume is doubled and its temperature becomes equal to that of the surroundings which is at 100 kPa, 5°C. For this process determine
- i) The maximum work.
- ii) The change in availability and
- iii) The irreversibility (13)
13. a) A vessel of volume 0.04 m³ contains a mixture of saturated water and saturated steam at a temperature of 250°C. The mass of the liquid present is 9 kg. Find the pressure, the mass, the specific volume, the enthalpy, the entropy and the internal energy. (13)
- (OR)
- b) A reheat Rankine cycle receives steam at 35 bar and 0.1 bar. Steam enters the first stage steam turbine 350°C. If reheating is done at 8 bar to 350°C, calculate the specific steam consumption and reheat Rankine cycle efficiency. (13)
14. a) i) A vessel of volume 0.28 m³ contains 10 kg of air at 320 K. Determine the pressure exerted by the air using a) perfect gas equation b) Vander walls equation c) Generalised compressibility chart. (Take critical temperature of air as 132.8 K and critical pressure of air as 37.7 bar). (8)
- ii) Draw a neat schematic of a compressibility chart and indicate its salient features. (5)
- (OR)
- b) What is meant by phase change process ? Derive Clausius-Clapeyron equation for a phase change process. Give the significance of this equation. (13)

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Tobias Bleicker



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