

Sem - III / mech / Thermodynamics

Nov/Sept, 2012 (No) 137
Con. 9600-12.

KR-3152

30-11-12 (3 Hours)

[Total Marks : 100

- N. B. :** (1) Question No. 1 is compulsory.
(2) Attempt any four questions from remaining six questions.
(3) Assume suitable data if necessary.
(4) Use of steam table moillier diagram are permitted.

1. Answer any five of the following :- 20
- (a) Differentiate between point function and path function.
 - (b) Show that entropy is property of a system.
 - (c) Define thermodynamic cycle, process, intensive properties and extensive properties.
 - (d) What are assumptions of air standard cycle ?
 - (e) State the zeroth law of thermodynamics. What is it's significance ?
 - (f) What do you mean by Available and unavailable energy ?
 - (g) Define heat engine refrigerator and heat pump.
2. (a) Derive an expression for heat absorbed or rejected during polytropic process for ideal gas. 6
- (b) What is Joule-Thomson coefficient ? What conclusion can be drawn from a given value of this coefficient ? Explain in brief. 6
- (c) 0.18 m^3 of air at a pressure of 1000 kPa and 300°C is expanded polytropically following the law $PV^{1.5} = C$ and finally compressed back to initial state isothermally calculate (i) Heat received (ii) Heat rejected (iii) efficiency of the cycle. 8
3. (a) Write the statements of second law of thermodynamics. 4
- (b) State and prove clausius in equality for an irreversible cycle. 6
- (c) A reversible heat engine operates between two reservoirs at temperature of 600°C and 60°C the engine drives the refrigerator which operates between the reservoirs at temperature of 60°C and -30°C . The heat transfer to the engine is 3 MJ and the net work output of the combined engine and refrigerator plant is 380 KJ . Find heat transfer to the refrigerant and the net heat transfer to the reservoir at 60°C . 10
4. (a) Explain steady flow energy equation. Apply to nozzle and turbine. 8
- (b) In a steady flow system fluid flow at the rate of 5 kg/s . It enters at a pressure of 620 kPa a velocity of 300 m/s Internal energy 2100 kJ/kg and specific volⁿ $0.37 \text{ m}^3/\text{kg}$ it leaves the system at a pressure of 130 kPa a velocity of 150 m/s Internal energy 1500 kJ/kg and specific volⁿ $1.2 \text{ m}^3/\text{kg}$. During it's flow through system there is a heat loss of 30 kJ/kg . Determine the power capacity of the system in kW. State wheather it is from or to the system. Neglect change in P.E. 12

[TURN OVER

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M Woodhall



Engineering Thermodynamics Question Paper 2012:

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