Max. Marks: 70

B.Tech III Year II Semester (R15) Supplementary Examinations December/January 2018/19

HEAT TRANSFER

(Mechanical Engineering)

Use of heat transfer data book is allowed.

Time: 3 hours

3

PART - A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
 - (a) Write the expression for overall heat transfer coefficient for composite wall with two different materials subjected to convection on both sides.
 - (b) Write different types of boundary conditions.
 - (c) Define fin efficiency. Write expression for fin efficiency for a fin with insulated tip.
 - (d) Write significance of Heisler charts in transient heat conduction.
 - (e) Write conservative form of energy equation.
 - (f) Define Prandtl number and Grashof number.
 - (g) Write different stages in a pool boiling.
 - (h) Counter flow heat exchanger is having higher effectiveness than the parallel flow heat exchanger. Justify.
 - (i) What is Wien's displacement law?
 - (j) What is shape resistance and surface resistance in a radiation heat transfer between two surfaces?

PART - B

(Answer all five units, 5 X 10 = 50 Marks)

[UNIT - I]

2 Derive the generalized three dimensional heat conduction equation in cylindrical coordinates. Reduce it into one dimensional steady state equation.

OR

The exposed surface (x = 0) of a plane wall of a thermal conductivity K is subjected to microwave radiation that causes volumetric heating to vary as:

$$\dot{q}(x) = \dot{q}_0 \left[1 - \frac{x}{\lambda} \right]$$

where \dot{q}_0 (w/m^2) is a constant. The boundary at x=L is perfectly insulated, while the exposed surface is maintained at a constant temperature T_0 . Determine the temperature distribution T(x) in terms of x, h, K, \dot{q}_0 and T_0 .

UNIT - II

Derive the one dimensional heat conduction generalized equation for a rectangular fin. Consider fin base is at a temperature T_b and convection coefficient with surroundings fluid is h_∞. Reduce it to know the temperature distribution when the fin is assumed as long fin with infinite length.

OH

5 Carbon steel (AISI 1010) shafts of 0.12 m diameter are heat treated in a gas fired furnace whose gases are at 1250 K and provide a convection coefficient of 104 W/m²K. If the shafts enter the furnace at 305 K, how long must they remain in the furnace to achieve a centre line temperature of 810 K.

Contd. in page 2

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Dr. S. K. Sarkar & Dr. M.V.S.S.N. Prasad

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