

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

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write the expression for overall heat transfer coefficient for composite wall with two different materials subjected to convection on both sides.
 - Write different types of boundary conditions.
 - Define fin efficiency. Write expression for fin efficiency for a fin with insulated tip.
 - Write significance of Heisler charts in transient heat conduction.
 - Write conservative form of energy equation.
 - Define Prandtl number and Grashof number.
 - Write different stages in a pool boiling.
 - Counter flow heat exchanger is having higher effectiveness than the parallel flow heat exchanger. Justify.
 - What is Wien's displacement law?
 - 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**
- 3 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:

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

where $\dot{q}_0$ (W/m^3) 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

- 4 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.
- OR**
- 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 $\text{W/m}^2\text{K}$. 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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RS Peters



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