

**Sixth Semester B.E. Degree Examination, Dec.2013/Jan.2014**  
**Heat and Mass Transfer**

Time: 3 hrs.

Max. Marks:100

**Note: 1. Answer FIVE full questions, selecting at least TWO questions from each part.**  
**2. Use of heat transfer data book is permitted.**

**PART - A**

1.
  - a. Explain briefly the mechanism of conduction, convection and radiation heat transfer. (06 Marks)
  - b. With sketches, write down the mathematical representation of three commonly used different types of boundary conditions for one dimensional heat equation in rectangular coordinates. (08 Marks)
  - c. A plate of thickness 'L' whose one side is insulated and the other side is maintained at a temperature  $T_1$  is exchanging heat by convection to the surrounding area at a temperature  $T_2$ , with atmospheric air being the outside medium. Write mathematical formulation for one dimensional, steady state heat transfer, without heat generation. (06 Marks)
2.
  - a. An electric cable of 10mm diameter is to be laid in atmosphere at  $20^\circ\text{C}$ . The estimated surface temperature of the cable due to heat generation is  $65^\circ\text{C}$ . Find the maximum percentage increase in heat dissipation, when the wire is insulated with rubber having  $K = 0.155 \text{ W/mK}$ . Take  $h = 8.5 \text{ W/m}^2\text{K}$ . (06 Marks)
  - b. Differentiate between the effectiveness and efficiency of fins. (04 Marks)
  - c. In order to reduce the thermal resistance at the surface of a vertical plane wall ( $50 \times 50\text{cm}$ ), 100 pin fins (1 cm diameter, 10cm long) are attached. If the pin fins are made of copper having a thermal conductivity of  $300 \text{ W/mK}$  and the value of the surface heat transfer coefficient is  $15 \text{ W/m}^2\text{K}$ , calculate the decrease in the thermal resistance. Also calculate the consequent increase in heat transfer rate from the wall if it is maintained at a temperature of  $200^\circ\text{C}$  and the surroundings are at  $30^\circ\text{C}$ . (10 Marks)
3.
  - a. Show that the temperature distribution in a body during Newtonian heating or cooling is given by  $\frac{T - T_\infty}{T_i - T_\infty} = \frac{\theta}{\theta_i} = \text{Exp}\left(\frac{-h A_s t}{\rho C V}\right)$ . (06 Marks)
  - b. The steel ball bearings ( $K = 50 \text{ W/mK}$ ,  $\alpha = 1.3 \times 10^{-5} \text{ m}^2/\text{sec}$ ), 40mm diameter are heated to a temperature of  $650^\circ\text{C}$ . It is then quenched in a oil bath at  $50^\circ\text{C}$ , where the heat transfer coefficient is estimated to be  $300 \text{ W/m}^2\text{K}$ . Calculate:
    - i) The time required for bearings to reach  $200^\circ\text{C}$ .
    - ii) The total amount of heat removed from a bearing during this time and
    - iii) The instantaneous heat transfer rate from the bearings, when they are first immersed in oil bath and when they reach  $200^\circ\text{C}$ . (14 Marks)
4.
  - a. With reference to fluid flow over a flat plate, discuss the concept of velocity boundary and thermal boundary layer, with necessary sketches. (05 Marks)
  - b. The exact expression for local Nusselt number for the laminar flow along a surface is given by  $\text{Nu}_x = \frac{h_x x}{k} = 0.332 \text{ Re}_x^{1/2} \text{ Pr}^{1/3}$ . Show that the average heat transfer coefficient from  $x = 0$  to  $x = L$  over the length 'L' of the surface is given by  $2h_L$  where  $h_L$  is the local heat transfer coefficient at  $x = L$ . (05 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
 2. Any revealing of identification, appeal to evaluator and/or equations written eg.  $4 \times 4 = 50$ , will be treated as malpractice.

# Mechanical Engineering 6 Th Semester With File

**RM Cervero**



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