

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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Table of Contents Jntua 2 2 Previous Question Papers

1. Understanding the eBook Jntua 2 2 Previous Question Papers
 - The Rise of Digital Reading Jntua 2 2 Previous Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Jntua 2 2 Previous Question Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Jntua 2 2 Previous Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jntua 2 2 Previous Question Papers
 - Personalized Recommendations
 - Jntua 2 2 Previous Question Papers User Reviews and Ratings
 - Jntua 2 2 Previous Question Papers and Bestseller Lists
5. Accessing Jntua 2 2 Previous Question Papers Free and Paid eBooks
 - Jntua 2 2 Previous Question Papers Public Domain eBooks
 - Jntua 2 2 Previous Question Papers eBook Subscription Services
 - Jntua 2 2 Previous Question Papers Budget-Friendly Options

6. Navigating Jntua 2 2 Previous Question Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Jntua 2 2 Previous Question Papers Compatibility with Devices
 - Jntua 2 2 Previous Question Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jntua 2 2 Previous Question Papers
 - Highlighting and Note-Taking Jntua 2 2 Previous Question Papers
 - Interactive Elements Jntua 2 2 Previous Question Papers
8. Staying Engaged with Jntua 2 2 Previous Question Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Jntua 2 2 Previous Question Papers
9. Balancing eBooks and Physical Books Jntua 2 2 Previous Question Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jntua 2 2 Previous Question Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Jntua 2 2 Previous Question Papers
 - Setting Reading Goals Jntua 2 2 Previous Question Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jntua 2 2 Previous Question Papers
 - Fact-Checking eBook Content of Jntua 2 2 Previous Question Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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