

THIRD SEMESTER B.TECH DEGREE EXAMINATION  
(2013Scheme)

**13.303 MECHANICAL TECHNOLOGY (P)**

**MODEL QUESTION PAPER**

Time: 3Hours

Max. Marks: 100

*Instructions: Use of Approved data books is permitted.*

**Part-A**

*Answer all questions*

1. Define thermal conductivity. How does it vary with temperature?
2. Define thermal resistance. How does it vary from electrical resistance?
3. State Buckingham's Pi theorem. Mention its advantages.
4. Define absorptivity, reflectivity and transmissivity. Obtain the relation between them.
5. What are the different efficiencies of IC engines?
6. Differentiate between LMTD and NTU with reference to heat exchangers.
7. With the help of P-v diagram, state the advantages of intercooling in reciprocating air compressors.
8. What is meant by maximum specific work output with reference to Gas turbines?
9. What are refrigerants? How are they designated?
10. Define GSHE with the help of Psychrometric chart.

(2Marks ×10= 20 Marks)

**Part-B**

*Answer any one full question from each module*

**MODULE-I**

11. a) Derive an expression for general heat conduction in Cartesian co-ordinate. What are the assumptions for the same?  
b) The thermal conductivity of insulating material used over 20cm diameter pipe carrying hot gases varies as  $k = 0.065(1 + 15 \times 10^{-4} T)$  W/m-°C where T is in °C. The pipe surface temperature is 250°C and insulation outer surface temperature is 60°C. Find the heat flow through the pipe and the temperature at mid -thickness of insulation.
12. a) Establish the functional relation  $Nu = f(Re, Pr)$  for forced convection heat transfer with the help of dimensional analysis.

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**IM Harris**



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