

4. Define Critical Cooling Rate. Describe various cooling curves on TTT diagrams. How are such curves drawn ? What factors affect critical cooling rate ?
5. What are Ceramics ? How are ceramics classified ? Explain their different properties.
6. Define Composite Materials. How are composite materials classified ? Explain their different properties.
7. What is purpose of polymer coating ? Explain different types of coating materials.
8. Write short notes on the following :
- (a) Copper and its alloys
 - (b) Tool Steel
 - (c) Cast Irons.

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Roll No.

Subject Code—6021

M. Tech. EXAMINATION

(First Semester)

(Main/Re-appear Batch 2011 Onwards)

MECH. ENGINEERING

MELP-712

Advance Engineering Materials

Time : 3 Hours

Maximum Marks : 70

Note : Attempt any Five questions. All questions carry equal marks.

1. What are commercial alloys of aluminum ? Briefly describe their composition and uses.
2. What is difference between an iron-carbon diagram and T-T-T diagram ?
3. Define heat treatment and list the various stages of the heat treatment procedure.

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P.T.O.