

B.E. 1st Sem. (CST/EE/ETQ/IT) Final Exam., 2011
Manufacturing Methodology (MEMT-1201)

Manufacturing method

First half

1. Describe the various types of flames that can be produced in oxy-acetylene flame welding with temperature advantage and disadvantage
or
Describe the factors for selecting right kind of Electrode for a particular welding joint. 7 1/2
2. Answer any two 5x2
 - (a) What do you understand by second invariant of stress deviator?
 - (b) Describe the various types of forming processes with suitable sketch
 - (c) Show the different forces acting in the case of deformation through a wedge shaped die.

SECOND HALF

- 4.a) Describe with sketch the following operations in drilling machine: [8]
 - (i) Counter boring (ii) Counter sinking (iii) Reaming and (iv) Tapping
- b) Briefly describe the machining process in a horizontal milling machine [4 1/2]
5. a) Draw a 'Lathe Machine' showing its major components and briefly explain their [8] functions.
- b) Illustrate with sketch three components showing different operations on a lathe [4 1/2] machine
6. Write notes on any two: [12 1/2]
 - i) ^{tical} Electro Discharge Machining
 - ii) Injection Moulding of thermoplastics
 - iii) Calculation of machining time for 'Turning'
 - iv) Manufacturing process in shaping machine