

III B.Tech I Semester Supplementary Examinations, February 2008  
MANUFACTURING TECHNOLOGY  
(Mechatronics)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions  
All Questions carry equal marks

\*\*\*\*\*

1. (a) What is meant by seasoning of wood and describe various seasoning methods for wood.  
(b) Describe various pattern allowances [8+8]
2. (a) Explain the process of making Moulds by Jolt-Squeezing machines.  
(b) Describe Oil Fired tilting type Crucible Furnace with a neat sketch. [8+8]
3. (a) Describe various rolling products used in industries.  
(b) How the forces in rolling are estimated? Explain the theory of rolling. [6+10]
4. (a) Explain the extrusion process used to produce seamless tubes.  
(b) Name any two extrusion products and sketch the process used for each. [8+8]
5. (a) Sketch and explain various hand hammers and power hammers used in practice. Mention their applications.  
(b) Bring out the differences between punching and drifting operations. Mention their applications. [10+6]
6. (a) Sketch and explain flash butt welding and mention its advantages and applications.  
(b) Differentiate between spot welding and projection welding [10+6]
7. (a) How the flatness of the parts can be checked? Sketch various instruments used for this?  
(b) Sketch and explain the construction and working of dial indicator [8+8]
8. (a) How the angle of taper plug gauge is measured? Sketch the arrangement.  
(b) Explain about gauge tolerance and wear tolerance. [10+6]

\*\*\*\*\*