

Q.P. Code : 838702

( 3 Hours)

[ Total Marks : 80

- N.B. :** (1) Question No.1 is compulsory.  
 (2) Attempt **any three** questions from remaining **five** questions.  
 (3) **Illustrate** your answers with **neat sketches**.  
 (4) **Figure** at right side **indicate marks**.

1. Write short notes on **any four** : 20
  - (a) Manufacturing processes
  - (b) Electronic packing
  - (c) Laminated object manufacturing
  - (d) Rolling defects
  - (e) Cutting Fluid
  
2. (a) Explain centrifugal casting and give its relative merit and demerits. 10  
 (b) List advantages, limitation and application of Extrusion. 5  
 (c) Explain compression moulding with neat sketch. 5
  
3. (a) Explain the following term : 10

(i) Coining	(ii) Punching
(iii) Trimming	(iv) Shearing
- (b) Explain the F.W. Taylor tool life equation and draw the tool life curve for various metals. 10
  
4. (a) Explain various indexing methods? Explain any one with suitable examples. 10  
 (b) Explain Slotting machine with neat diagram. 5  
 (c) Explain design procedure for adhesive bonding. 5
  
5. (a) How do brazing and soldering differ from fusion welding? 6  
 (b) Describe the shielded-metal arc-welding process. 6  
 (c) Explain the construction, working, application of electric discharge Machining Process. 8
  
6. (a) Describe the ECM process with neat sketch and explain how it differ from the EDM. 10  
 (b) Explain general fabrication sequence for I.C with flow chart. 10