

Total Marks- 80

Duration: 3 Hours

- N.B.** 1) First Question (Q.1) is Compulsory.
 2) Attempt any 3 questions from the remaining 5 (Q.2 - Q.6) questions.
 3) Figures to the right indicate full marks
 4) Proportionate and labelled free-hand sketches would do

- Q1. Write a short note on (Any four)** 20
- Mechanical fastening
 - Welding inspection
 - Rolling defects
 - Shell Molding
 - Closed loop systems in modern machines
 - Blow moulding process of glass
- Q2. a) Explain gating system in casting with neat sketch.** 10
b) Describe stud welding process with advantages and disadvantages. 10
- Q3. a) Write difference between rolling and forging process** 10
b) Explain cold chamber die casting process with sketch 10
- Q4. a) Explain different operations performed on milling machine** 10
b) Explain compression moulding process in plastics with its applications 10
- Q5. a) Describe direct and indirect extrusion process with neat sketch** 10
b) What are different types of drilling machines and explain one of them 10
- Q6. a) What are different types of rolling defects? Explain two with sketch** 10
b) Explain MIG welding process with its applications 10
