

3013

**B.Tech. (Common for All Branches) (G-Scheme)**

**1st Semester Examination, November-2023**

**WORKSHOP TECHNOLOGY**

**Paper-ESC-ME-102-G**

*Time allowed : 3 hours]*

*[Maximum marks : 75*

*Note : Attempt any five questions in total at least one question from each unit. Question no. 1 is compulsory. Each question carries equal marks.*

1. Write about : 6×2.5=15
- (a) Advantages of plant layout
  - (b) What is Extrusion ?
  - (c) Define Forging.
  - (d) Define Pattern.
  - (e) What do you understand by casting ?
  - (f) Define welding.

**Unit-I**

2. Write about various types of accidents. How can we minimize them, give suitable examples ? 15
3. Discuss in detail about classification of manufacturing process. 15

**Unit-II**

4. Write about :
- (a) Wire drawing and spinning. 8
  - (b) Defects in timber. 7
5. Describe various sheet metal operations with the help of sketches. 15

**Unit-III**

6. Explain with neat sketches : Various types of pattern allowances. 15
7. Explain the working principle of shaper machine. Also discuss various parts of shaper machine with the help of neat sketch. 15

**Unit-IV**

8. Describe the Principle of Arc welding. Also explain MIG welding and it's application with the help of neat sketch. 15
9. Write about :
- (a) Seam welding 8
  - (b) Soldering 7