

( 2 )

3013

5. Discuss in details the hot cold working processes. 15

**Unit-III**

6. What do you mean casting ? Explain different patterns and pattern allowances. 15

7. Explain the principle of resistance welding. Also explain the various welding defects. 15

**Unit-IV**

8. Explain the principle of resistance welding. Also explain the various welding defects. 15

9. Explain :  $3 \times 5 = 15$

(a) Gas Welding

(b) TIG

(c) MIG

3013

**B. Tech. 2nd Semester (Common for All Branches)**

**(G-Scheme) Examination, May-2023**

**WORKSHOP TECHNOLOGY**

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

*Time allowed : 3 hours]*

*[Maximum marks : 75*

*Note : Attempt any five questions in all, selecting one question from each unit. Question No. 1 is compulsory. All questions carry equal marks.*

1. Explain the following : 2½×6=15
- (a) Sources of Accident
  - (b) Hot and Cold Working Processes
  - (c) Steps in Casting Process
  - (d) Gating System
  - (e) Principle of Arc Welding
  - (f) Soldering and Brazing

**Unit-I**

2. Explain the concept of plant layout. Also explain the different types of plant layout. 15
3. What do you mean by accident ? Discuss different types of accidents. What are the safety measures to reduce accident ? 15

**Unit-II**

4. Explain various sheet metal operations in details. 15