

Roll No. ....

**3013**

**B. Tech 1st Semester (Common for All  
Branches) Examination – December, 2019**

**WORKSHOP TECHNOLOGY**

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

**Time : Three Hours ]**

**[ Maximum Marks : 75**

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Question No. 1 is *compulsory* having, *ten* parts and each part is of 2.5 marks total of 25 marks and remaining questions is of 12.5 marks. And attempt *one* question from each Unit.

1. (a) Name any *two* Machining Process.

(b) What is joining process ?

(c) What are important material first aid box should have ?

(d) Define hot working.

(e) What is piercing ?

(f) Draw Skelton piece pattern.

(g) Name the parts of shaper machine.

(h) Write the definition of welding.

(i) What is a shift defect in casting ?

(j) What is knurling ?  $2.5 \times 10 = 25$

#### UNIT – I

2. Explain the various methods of preventing the accidents. 12.5

3. What is Plant Layout and discuss the various types of Plant Layout ?

#### UNIT – II

4. Explain Hot rolling and also explain various types of rolling. 12.5

5. Explain the various Sheet Metal Operations. 12.5

#### UNIT – III

6. Discuss the various parts of lathe machine. 12.5

7. Discuss the working of Cupola Furnace. 12.5

#### UNIT – IV

8. Explain the welding process and classify the various types Welding Processes. 12.5

9. Discuss the difference between Soldering & Brazing. 12.5