

9. Write short notes on the following :

- (a) Surface finishing processes
- (b) Classification of welding process
- (c) Estimating of manufacturing cost.  $5 \times 3 = 15$

No. of Printed Pages : 04

Roll No. ....

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**B. Tech. EXAMINATION, Dec. 2018**

(First Semester)

(B. Scheme) (Main & Re-appear)

(Common with 2nd Sem.)

ME101B

MANUFACTURING PROCESSES

*Time : 3 Hours]*

*[Maximum Marks : 75*

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

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**Note :** Attempt *Five* questions in all including Q. No. **1** which is compulsory. Select *one* question from each Unit. All questions carry equal marks.

1. (a) Define manufacturing. **2.5×6=15**  
 (b) What is purpose of a core ?  
 (c) Give the advantages of fixed layout.  
 (d) What are the advantages of brazing ?  
 (e) Name the operations that can be performed on drilling machine.  
 (f) Differentiate between Punching and blanking.

### Unit I

2. Explain different types of accidents, their sources and safety methods. **15**
3. What do you mean by plant layout ? With the help of suitable examples, explain the different types of plant layout. **15**

### Unit II

4. Explain in detail the general properties and applications of high carbon steel, high speed steel and cast iron. **15**

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**2**

5. (a) With the help of neat sketch explain the construction working of Cupola furnace. **10**  
 (b) Discuss different types of pattern allowances in casting. **5**

### Unit III

6. (a) What is principal of hot working ? Explain forging rolling and wire drawing. **10**  
 (b) Differentiate between hot working and cold working. **5**
7. Explain the mechanics of Chip formation. What are the uses of coolants in machining ? **15**

### Unit IV

8. (a) Explain the different types of welding defects and their remedies. **7**  
 (b) Explain the principal of Arc Welding. Differentiate between TIG and MIG welding. **8**

**(2-06/9) M-A-4**

**3**

**P.T.O.**