

Roll No. ....

Total Pages : 2

**BTP/M-20**

**16146**

**MANUFACTURING PROCESSES**

**Paper-404**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit.

**UNIT-I**

1. (a) Discuss primary shaping processes. Give also a brief account of the primary shaping processes. 8
- (b) Explain the causes and common sources of industrial accidents. 7
2. (a) How are engineering materials classified?
- (b) Write short note on these :
  - (i) Mild steel. 5
  - (ii) Cast iron. 10

**UNIT-II**

3. (a) Explain the pattern allowance. Discuss the different type of pattern allowances. 07
- (b) Describe the working of Cupola furnace. 08
4. Enlist the different properties of moulding sand. How these properties are responsible for various types of casting defects? Explain with examples. 15

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### UNIT-III

5. (a) What is wire drawing? How it is different from stretch forming? 08
- (b) Differentiate between the Punching and Blanking. Explain the processes with neat sketches. 07
6. What are the major objectives of a good plant layout? Explain the various types of plant layout in detail. 15

### UNIT-IV

7. (a) Discuss the principle of electric arc welding. Explain the reverse and straight polarity in arc welding. 08
- (b) Describe the TIG and MIG welding with their applications. 07
8. (a) What is Machining? Explain the different types of chip with their causes of formation. 07
- (b) Explain the working of milling machine with constructional features and different operations. 08
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