

01950

**DIPLOMA IN MECHANICAL ENGINEERING  
(DME)  
DIPLOMA - VIEP - MECHANICAL  
ENGINEERING**

**Term-End Examination  
June, 2013**

**BME-059 : MANUFACTURING PROCESS - III**

*Time : 2 hours*

*Maximum Marks : 70*

---

*Note : Attempt any five questions. All questions carry equal marks.*

---

1. (a) Explain the working principle of universal milling machine. 7
- (b) Describe different types of milling operations with the help of neat diagram. 7
2. (a) Explain various operations performed on broaching machines. 8
- (b) Classify different types of broaching machines and their applications. 6
3. (a) What is press ? Discuss various types of presses. 7
- (b) What are the various factors for selection of press for sheet metal forming operations ? Describe in detail. 7

4. (a) What is die ? Discuss various types of dies and their applications. 7
- (b) Explain flat face and inclined face punch with the help of neat diagrams. 7
5. (a) Explain with the help of diagram working principle of Electro discharge machine. Also mention its advantages and disadvantages. 7
- (b) What are the advantages of unconventional machining over conventional machining ? Describe in detail. 7
6. (a) Describe the working principle of gear shaping machine. 7
- (b) Mention various methods of gear manufacturing. Explain any one method. 7
7. (a) Describe the process of compression - moulding with the help of neat diagram. 7
- (b) Explain the important mechanical and physical properties of plastics and its uses. 7
-