

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

**Term-End Examination
December, 2012**

BME-059 : MANUFACTURING PROCESS - III

Time : 2 hours

Maximum Marks : 70

Note : Answer *any five* questions.

1. (a) What are the types of Milling Machines ? 7
Explain any one type with neat sketch.
- (b) Explain various types of milling operations 7
with neat sketch.
2. (a) What are the different types of Indexing 7
Methods ? Explain with neat sketch.
- (b) Explain the working of broaching machine 7
with neat sketch.
3. (a) What are the types of dies ? Explain any 7
one type with neat sketch.
- (b) What are the various types of presses ? 7
Explain any one type with neat sketch. Also
list out their industrial applications.

4. (a) What is principle of location ? How the locating devices are used in Jig and Fixtures ? Explain with suitable sketch. 7
- (b) What are the types of drilling Jigs with neat sketch ? Also list out their uses. 7
5. (a) Explain the process of Electro Discharge Machining (EDM) with neat sketch and state its application. 7
- (b) How the material removal is controlled in Chemical Machining Process ? Explain with suitable examples. 7
6. (a) Explain the working of Gear shapping machine with neat sketch. 7
- (b) What are the various types of Gear Cutters ? Explain with suitable examples. 7
7. (a) Explain the working principle of injection moulding machine with neat sketch. 7
- (b) List out the advantages of injection moulding process over the compression moulding process. 7
8. Write short notes of the following : 4x3.5=14
- (a) Universal Dividing Head
- (b) Stripper Plate
- (c) Laser Beam Machining
- (d) Limitations in the use of plastics.
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