

**DIPLOMA IN MECHANICAL ENGINEERING
(DME)**

Term-End Examination

June, 2018

00813

BME-059 : MANUFACTURING PROCESS – III

Time : 2 hours

Maximum Marks : 70

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

1. (a) How are different drilling machines classified ? Compare drilling and reaming. 7
- (b) With the help of neat sketch, explain boring process. 7
2. (a) Differentiate between a plain knee type machine and a universal milling machine. 7
- (b) With the help of a neat sketch, distinguish between up-milling and down-milling processes. 7
3. (a) State the principle of Electron Beam Machining and state its applications. 7
- (b) Discuss the advantages of unconventional machining processes over conventional machining processes. 7

4. (a) List and explain briefly the various attachments used on milling machines. 7
- (b) Discuss the functions of various clamping devices used in jigs and fixtures. 7
5. (a) Classify various manufacturing processes used for plastics. Explain any one in brief. 7
- (b) Explain the working principle of the Electro-chemical machining process with the help of a neat sketch. 7
6. (a) Explain set-up and working of Laser Beam Machining with the help of neat diagram. 7
- (b) Explain in brief, the working principle of ultrasonic machining. 7
7. (a) State advantages and characteristics of different types of broaches. 7
- (b) With the help of neat sketch, explain the working of Abrasive Jet Machining. 7
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