

DIPLOMA IN MECHANICAL ENGINEERING
(DME)

Term-End Examination, 2019

BME-059 : MANUFACTURING PROCESS-III

Time : 2 Hours

Maximum Marks : 70

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

1. (a) How milling cutters are classified ? With the help of neat sketch explain various types of cutters used on milling machines. [7]
- (b) Classify different types of milling machines. Explain any one milling machine with the help of neat diagram. [7]
2. (a) Explain with the help of neat diagram the working of horizontal broaching machine. Also mention its applications, advantages and disadvantages. [7]



- (b) Explain the working of Internal broaching and External broaching machines. Also state the limitations of these two types . [7]
3. (a) Classify different types of press. With the help of neat diagram, explain the working principle of any one press. [7]
- (b) What is a die ? What are its uses ? Describe with the help of neat diagram the working of commonly used dies. [7]
4. (a) Discuss the function of jigs and fixture. Explain with the help of suitable examples. [7]
- (b) With the help of neat diagram, explain the working principle of flat face and inclined face punch. [7]
5. (a) With the help of neat diagram, explain the working principle of Electro discharge machine (EDM). Also state its applications, advantages and disadvantages. [7]
- (b) With the help of neat diagram, explain the working principle of ultrasonic machine (USM). Also state its application, advantages and disadvantages.

[7]

6. (a) What are the methods for Gear finishing operations ? Explain any one in detail with the help of a diagram. [7]
- (b) Differentiate between the Injection moulding and Compound moulding. Also state the limitations of these types of moulding. [7]
7. Write short notes on the following : [2×7=14]
- (i) Plasma Arc Machining
- (ii) Compression moulding.

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