No. of Printed Pages: 3

BME-059

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination, 2019

BME-059: MANUFACTURING PROCESS-III

|Maximum Marks: 70 Time: 2 Hours Note: Answer any five questions. All questions carry equal marks. Explain the working of horizontal and column type 1. (a) milling machine with the help of diagrams. With the help of neat diagram, explain the different (b) [7] type of milling operations. Explain various operations performed on 2. (a) broaching machines. [7] [7] (b) Describe in brief the following: (i) Cutting fluid (ii) Machinability [P.T.O.] BME-059

3.	(a)	With the help of neat sketch, explain the of mechanical press. Also mentionadvantages and disadvantages.	
	(b)	What are the factors to be considered selection of press for sheet metal operations	
		Discuss in detail.	[7]
4.	(a)	What points should be considered for se	
		and designing a jig and fixture?	[7]
	(b)	What are the different types of clamps used? Explain with the help of neat diagram anyone type	
		of clamp.	[7]
5.	(a)	With the help of neat diagram, explain vertices of Ultrasonic machining. Also neapplications, advantages and disadvantages.	nention
	(b)	With the help of neat sketch explain the w	vorking
		principle of Electro Chemical Machining	
		also mention the applications, advantage	es and
		disadvantages.	[7]
6.	(a)	With the help of neat diagram, explain the w	vorking
		principle of gear hobbing machine.	[7]

(2)

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- (b) What are the different methods for gear manufacturing? Explain the advantages and disadvantages of gear shaping machine. [7]
- 7. Write short notes on the following:

[2x7=14]

- (i) Laser Beam Machining
- (ii) Injection Moulding Machine

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