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## Sixth Semester B.E. Degree Examination, Dec.2019/Jan.2020 Non-Traditional Machining

Time: 3 hrs.

MYGALORE

Max. Marks: 100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

## PART - A

<ol> <li>a. Explain briefly the classification of non-traditional machines. Justify the need of unconventional machining process.</li> <li>c. Briefly explain the following elements of the ultrasonic machines (i) Work material (ii) Amplitude of vibration (iii) Slutter and the substantial operation.</li> <li>with an illustration explain working principle and operation.</li> <li>write a note on abrasives used in AJM with applications.</li> <li>what are the advantages and limitations of AJM?</li> </ol>	(05 Marks) nachining: arry concentration (09 Marks) tions of AJM. (10 Marks)
<ul> <li>c. Briefly explain the following elements of the ultrasonic m (i) Work material (ii) Amplitude of vibration (iii) Slu</li> <li>2 a. With an illustration explain working principle and operat b. Write a note on abrasives used in AJM with applications.</li> </ul>	machining: curry concentration (09 Marks) cions of AJM. (10 Marks)
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<ul> <li>a. With an illustration explain working principle and operat</li> <li>b. Write a note on abrasives used in AJM with applications.</li> </ul>	tions of AJM. (10 Marks)
b. Write a note on abrasives used in AJM with applications.	
b. Write a note on abrasives used in AJM with applications.	
c. What are the advantages and limitations of AJM?	(05 Marks)
	(05 Marks)
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3 a. With an illustration explain working principle and	
Machining process.	(10 Marks)
b. Explain the material removal rate in Electro Chemical M	
c. Briefly discuss merits and demerits of ECM.	(05 Marks)
4 a. Discuss briefly the following in ECM tool:	C) y
(i) Insulation (ii) Slug formation	(10 Marks)
b. Explain the following:	
(i) Electrochemical Grinding (ii) Electrochemical S	Shaping (10 Marks)
	maping (10 marks)
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PART – B	E 4 FEb LUZO
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5 a. Describe the working principle of chemical machining prin	rocess. (05 Marks)
5 a. Describe the working principle of chemical machining principle of the working principle of the b. Write a note on 'echants' in chemical machining process	rocess. (05 Marks) (05 Marks)
5 a. Describe the working principle of chemical machining prin	rocess. (05 Marks) (05 Marks)
5 a. Describe the working principle of chemical machining probes. Write a note on 'echants' in chemical machining process c. Explain chemical blanking with the flow chart showing a	rocess. (05 Marks) (05 Marks) (10 Marks) (10 Marks)
<ul> <li>5 a. Describe the working principle of chemical machining process</li> <li>b. Write a note on 'echants' in chemical machining process</li> <li>c. Explain chemical blanking with the flow chart showing a</li> <li>6 a. With an illustration explain working principle and operate</li> </ul>	rocess. (05 Marks) (05 Marks) all the principle process steps. (10 Marks) tions of EDM. (10 Marks)
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<ul> <li>a. Describe the working principle of chemical machining process</li> <li>b. Write a note on 'echants' in chemical machining process</li> <li>c. Explain chemical blanking with the flow chart showing a</li> <li>a. With an illustration explain working principle and operate</li> <li>b. Define flushing. Explain any two different types of flush</li> </ul>	rocess. (05 Marks) (05 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks) (10 Marks)
<ul> <li>a. Describe the working principle of chemical machining process b. Write a note on 'echants' in chemical machining process c. Explain chemical blanking with the flow chart showing a b. With an illustration explain working principle and operat b. Define flushing. Explain any two different types of flush</li> <li>a. Discuss briefly the "Generation of Plasma" in Plasma are</li> </ul>	rocess. (05 Marks) (05 Marks) (10 Marks)
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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.