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10ME665

Sixth Semester B.E. Degree Examination, Dec.2018/Jan.2019
Non Traditional Machining

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Compare the conventional machining with nontraditional machining process. (06 Marks)
b. Briefly explain how the NTM processes are classified. (06 Marks)
c. List and explain the various factors to be considered for selection of NTM. (08 Marks)
- 2 a. With a neat sketch explain USM process. (10 Marks)
b. Briefly explain the effect of various parameters on MRR in USM process. (10 Marks)
- 3 a. With a neat sketch, explain Abrasive jet machining process. (10 Marks)
b. With a neat sketch, explain water jet machining process. (10 Marks)
- 4 a. Briefly explain the chemistry in ECM process with sketch. (08 Marks)
b. With sketch explain Electro chemical Grinding and Electro chemical honing. (12 Marks)

PART – B

- 5 a. List the factors affecting the selection of Maskants and Etchants. (10 Marks)
b. Explain the sequence of operations in chemical blanking. (06 Marks)
c. List the functions of electrolyte. (04 Marks)
- 6 a. With a neat sketch, explain EDM process. (10 Marks)
b. Briefly explain flushing. Enumerate any two methods of flushing used in EDM. (10 Marks)
- 7 a. With a neat sketch explain PAM. (10 Marks)
b. List out the advantages, disadvantages and application of PAM. (10 Marks)
- 8 With sketch, explain LBM and EBM process. (20 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.