Code: ME7T3

## IV B. Tech - I Semester - Regular Examinations - November 2015

## ADVANCED MACHINING PROCESSES (MECHANICAL ENGINEERING)

Duration: 3 hours Max. Marks: 70

Answer any FIVE questions. All questions carry equal marks

- 1. a) What is necessity for unconventional machining processes? 7 M
  - b) Explain the factors that should be considered during the selection of an appropriate un-conventional machining process for a given job.

    7 M
- 2. a) Discuss the influence of process parameters and applications of USM.

  7 M
  - b) Give a note on the economic considerations of USM. 7 M
- 3. a) Explain the mechanism of metal removal rate in AJM.

7 M

b) With neat sketch explain the process of AJM. List its application and limitations.

7 M

4. a) Explain the classification and characteristics of various	
spark erosion generators.	7 M
b) With help of neat sketch describe the mechanism of material removal in EDM.	7 M
5. a) Describe the process of electrochemical machining.	7 M
b) Discuss about the electro-chemical honing and electro-chemical grinding.	o- 7 M
6. a) Discuss the process parameters of EBM and their infloon machining quality.	uence 7 M
b) Discuss how the process variables in EBM influence I and pattern generation.	MRR, 7 M
7. Explain in detail chemical machining process.	14 M
8. a) Explain abrasive flow finishing.	7 M
b) State the advantages, disadvantages and applications of	of
shaped tube electrolytic process.	7 M