Roll No

## ME-8003 (3) (CBGS) B.E. VIII Semester

Examination, May 2019

## Choice Based Grading System (CBGS) Advance Machining Process

Time: Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.

- ii) All questions carry equal marks.
- a) What are the different Advance Machining Process and what are their advantages?
  - b) Explain the water jet machining process.
- 2. a) What are the recent development in mechanical processes?
  - b) Differentiate the ultrasonic machining and abrasive jet machining.
- 3. a) What are the factors that control surface finish in machining process. How do you select the cutting process parameters for finish turning?
  - b) Explain in detail the Electrochemical Machining Process.
- 4. a) Explain the use of power source and electrolytes in 'ECM'.
  - b) Write short note on Electrochemical deburring.

5.	a)	What are the advantages of Electric Discharge Mach	unir	ng
		(EDM)?		6

- b) What are the different thermal metal removal processes?
   Explain any one in detail.
- a) Explain the working of Plasma Arc Machining (PAM).
  - b) Differentiate the Electron Beam Machining (EBM) and Laser Beam Machining (LBM).
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     http://www.rgpvonline.com
- 7. a) Explain the principles and working of 3D printing. 6
  - b) What are the advantages and disadvantages of subtractive v/s additive manufacturing process?
- 8. a) What are the different micro system devices? 6
  - b) Explain the different Nano Fabrication Processes. 8

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