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Roll No

ME-8003(3)-CBGS

B.E. VIII Semester

Examination, December 2020

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.

1. a) Explain what is meant by non-transferred and transferred mode of plasma arc? What are the advantages of each?
b) Give examples of 3D printing.
2. a) What are the different Advance Machining Process and what are their advantages?
b) Explain the water jet machining process.
3. a) Explain the use of power source and electrolytes in 'ECM'.
b) Write short note on Electrochemical deburring.
4. a) What are the advantages of Electric Discharge Machining (EDM)?
b) What are the different thermal metal removal processes? Explain any one in detail.
5. a) Explain in detail the process parameters of MRR in ultrasonic machining.
b) List in detail economic considerations, applications and limitations of Ultrasonic Machining.

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6. Explain the advantages of Water Jet cutting over traditional cutting process with suitable examples.
7.
 - a) Discuss the factors that influence the quality of the cut in plasma arc machining.
 - b) Write in detail about the process parameters of EBM.
8. What are the different types of Micro System Devices? Explain LIGA Process.

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