



B.Tech VII Semester Supplementary Examinations, July 2022

UNCONVENTIONAL MACHINING PROCESSES
(Mechanical Engineering)

Maximum Marks: 70

Duration: 3 Hours

- Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 Define non-traditional machining process
- 2 Write any two advantages of non-traditional machining process
- 3 Define the term MRR
- 4 Define the term deburring
- 5 Write any two points while selection of tool in EDM
- 6 Write any two names of abrasives in EDM Grinding machining
- 7 Write any two industrial Applications of PAM
- 8 Define the term Surface finish
- 9 Define the term MASKANT
- 10 Write any two Applications of Electric stream drilling

Part-B

Answer all the questions

(10MX5 =50Marks)

- 11 Explain the Classification of modern machining processes. [10]
OR
- 12 Explain the elements of Ultrasonic machining process with neat sketch. [10]
- 13 Explain the working principle of Abrasive water Jet Machine with neat sketch. [10]
OR
- 14 Explain the working principle of Electro Chemical Processes with neat sketch. [10]
- 15 Explain Working principle of EDM with neat sketch. [10]
OR
- 16 Explain Working principle of EDG with neat sketch explain. [10]
- 17 Explain the theory of electron beam machining with neat sketch. [10]
OR
- 18 Explain the working principle of LBM with neat sketch. [10]
- 19 Explain working principle of PAM with neat sketch. [10]
OR
- 20 Explain ECM with neat diagram of shaped tube electrolyte machining. [10]