



R18 Regulation

Subject code: 2E7CD

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A+' Grade)

B.Tech VII Semester Supplementary Examinations, April 2024

UN CONVENTIONAL MACHINING PROCESSES

(Mechanical Engineering)

Maximum Marks: 70

Date: 30.04.2024 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 Define modern machining processes
- 3 Define MRR.
- 4 Define the term electrochemical grinding
- 5 Write the applications of EDM
- 6 Write the principle of wire EDM.
- 7 Define the term accuracy.
- 8 Define the term electrolyte.
- 9 Write the applications of MASKANT?
- 10 Write the applications of Abrasive flow finishing?

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 Briefly explain the need for non-traditional machining methods. [10]
OR
- 12 Briefly explain the classification of modern machining process. [10]
- 13 Explain the application, advantages, disadvantages and limitations of Abrasive Jet Machine. [10]
OR
- 14 Explain the working principle of electrochemical grinding with neat sketch. [10]
- 15 Explain Working principle of EDM Grinding machining with neat sketch. [10]
OR
- 16 Write advantages, disadvantages and applications of EDM. [10]
- 17 Explain the working principle of LBM with neat sketch. [10]
OR
- 18 Explain the elements of EBM with neat sketch. [10]
- 19 Explain with neat diagram of shaped tube electrolyte machining. [10]
OR
- 20 Explain working principle of PAM with neat sketch. [10]