



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2022

Subject code: 2E7CD

UNCONVENTIONAL MACHINING PROCESSES

(Mechanical Engineering)

Maximum Marks: 70

Date: 09.12.2022 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 application of non-traditional machining process
- 3 Define the term electrochemical grinding
- 4 Write any two applications of electrochemical machining process
- 5 Write any two names of abrasives in EDM Grinding machining
- 6 Write the applications of 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 questions

(5X10M=50Marks)

- 11 Briefly explain the need for non-traditional machining methods. [10]
OR
- 12 Explain the working principle of Ultrasonic machining process with neat sketch. [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 Wire cut EDM with neat sketch. [10]
OR
- 16 Working principle of EDM Grinding machining with neat sketch. [10]
- 17 Explain the elements of EBM with neat sketch. [10]
OR
- 18 Write the advantages, disadvantages, applications and limitations of laser beam machining. [10]
- 19 Explain with neat diagram of shaped tube electrolyte machining. [10]
OR
- 20 Briefly explain about maskants and its applications. [10]

