R20 Regulation *Subject code:3E6CE*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VI Semester Supplementary Examinations, May 2025

NON TRADITIONAL MACHINING PROCESSES

(ME)

Maximum Marks: 70 Date: 25.06.2025 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)		Marks	CO	BTL
1	Define modern machining processes.	2M	1	L1
2	Define non-traditional machining process.	2M	1	L1
3	Define the term deburring.	2M	2	L1
4	Define the term deburring.	2M	2	L1
5	Write any two points while selection of tool in EDM?	2M	3	L1
6	Write any two names of abrasives in EDM Grinding machining?	2M	3	L1
7	Define the term electrolyte.	2M	4	L1
8	Write any two industrial Applications of PAM?	2M	4	L1
9	Write the applications of MASKANT?	2M	5	L1
10	Write the applications of Abrasive flow finishing?	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the elements of Ultrasonic machining process with neat sketch.	10M	1	L2
	OR			
12	Explain the Classification of modern machining processes.	10M	1	L2
13	Explain the working principle of electrochemical grinding with neat sketch.	10M	2	L2
	OR			
14	Explain the working principle of Electro Chemical Processes with neat sketch.	10M	2	L2
15	Explain Working principle of EDM with neat sketch.	10M	3	L2
	OR			
16	Explain advantages, disadvantages and applications of EDM.	10M	3	L2
17	Explain the working principle of LBM with neat sketch.	10M	4	L2
	OR			
18	Explain the elements of EBM with neat sketch.	10M	4	L2
19	Explain with neat diagram of shaped tube electrolyte machining.	10M	5	L2
	OR			
20	Briefly explain about maskants and its applications.	10M	5	L2