R18 Regulation *Subject code:2E7CD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

UNCONVENTIONAL MACHINING PROCESSES

(ME)

Maximum Marks: 70 Date: 15.05.2026 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 non-traditional machining process	2M	1	L1
2	Write any two application of non-traditional machining process	2M	1	L1
3	Define the term electrochemical grinding	2M	2	L1
4	Write any two applications of electrochemical machining process	2M	2	L1
5	Write any two names of abrasives in EDM Grinding machining	2M	3	L1
6	Write the applications of EDM	2M	3	L1
7	Define the term accuracy	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 any two points while selection of tool in EDM	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Briefly explain the need for non-traditional machining methods	10M	1	L2
	OR			
12	Explain the working principle of Ultrasonic machining process with neat sketch	10M	1	L2
13	Explain the application, advantages, disadvantages and limitations of Abrasive Jet Machine	10M	2	L2
	OR			
14	Explain the application, advantages, disadvantages and limitations of Abrasive Jet Machine	10M	2	L2
15	Write advantages, disadvantages and applications of EDM	10M	3	L2
	OR			
16	Working principle of EDM Grinding machining with neat sketch	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	Write the advantages, disadvantages and applications of PAM	10M	5	L2
	OR			
20	Write the principle, applications, advantages and disadvantages of chemical machining.	10M	5	L2