R18 Regulation *Subject code:2E7CD*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2023

UN-CONVENTIONAL MACHINING PROCESSES

(Mechanical Engineering)

Maximum Marks: 70 Date:09.12.2023 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 which carries 10M.
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.	L2
2	Write any two application of non-traditional machining process?	L1
3	Write any two applications of electrochemical machining process?	L1
4	Define the term deburring.	L2
5	Write any two names of abrasives in EDM Grinding machining?	L1
6	Define the term Surface finish.	L2
7	Define the term accuracy.	L2
8	Write the applications of Abrasive flow finishing?	L1
9	Write the applications of MASKANT?	L1
10	Write any two Applications of Electric stream drilling?	L1
	Part-B	
Answer All the following questions.	(5X10M=50Marks)	
11	Explain the working principle of Ultrasonic machining process with neat sketch. [10]	L2
	OR	
12	Explain the Classification of modern machining processes. [10]	L2
13	Explain the application, advantages, disadvantages and limitations of Abrasive Jet Machine. [10]	L2
	OR	
14	Explain the working principle of electrochemical grinding with neat sketch. [10]	L2
15	Explain Working principle of EDM Grinding machining with neat sketch. [10]	L2
	OR	
16	Explain surface griding machine with neat sketch . [10]	L3
17	Explain the working principle of LBM with neat sketch. [10]	L2
	OR	
18	Explain the theory of electron beam machining with neat sketch. [10]	L2
19	Write the advantages, disadvantages and applications of PAM. [10]	L2
	OR	
20	Explain with neat diagram of shaped tube electrolyte machining. [10]	L3