R18 Regulation *Subject code: 2E4CA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, July 2024

Manufacturing Process

(ME)

Maximum Marks: 70 Date:25.07.2024 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 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)		CO	Bloom Tx
1	List various Pattern allowances?	1	L1
2	What does gating system consist of?	1	L1
3	What is the purpose of coating on the arc welding electrode	2	L1
4	Distinguish consumable and non-consumable electrodes	2	L1
5	What are four major draw backs of hot working	3	L1
6	Classify different testing methods of welding	3	L1
7	What are the disadvantages of forging processes	4	L1
8	Classify at least four types of extrusion process	4	L1
9	What is the difference between pattern and casting	5	L1
10	What is the major advantage of die casting process	5	L1
	Part-B		
Answer All the following questions. (5X10M=50Marks)			
11	What are different types of gates. Explain any three of them with neat sketch.10M	1	L2
	OR		
12	Explain the requirements of a die casting design with examples. [10M]	1	L2
13	State the advantages, limitations and applications of Resistance welding process. [10M]	2	L2
	OR		
14	Describe the oxy-acetylene gas welding technique and give the applications. [10M]	2	L2
15	With help of neat sketch explain plasma arc welding. [10M]	3	L2
	OR		
16	Differentiate between soldering and brazing process. [10M]	3	L2
17	What are differences between TIG and MIG welding processes. [10M]	4	L2
	OR		
18	Explain cold spinning process with neat sketch. [10M]	4	L2

19	Explain wire drawing process with neat sketch. [10M]	5	L2
	OR		
20	Explain any two types of forging operations. [10M]	5	L2