R18 Regulation *Subject code:2E4CA*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, June 2026

MANUFACTURING PROCESS

(ME)

Maximum Marks: 70 Date:15.06.2026 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	List various Pattern allowances.	2M	1	L1
2	What does gating system consist of?	2M	1	L1
3	What is the purpose of coating on the arc welding electrode	2M	2	L1
4	Define Heat effected Zone1.	2M	2	L1
5	List different types rolling processes	2M	3	L1
6	What is the cold forming process?	2M	3	L1
7	Distinguish coining and embossing process.	2M	4	L1
8	What is the application of press forging?	2M	4	L1
9	Write about forging hammers.	2M	5	L1
10	Define casting process.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	What are different types of gates. Explain any three of them with neat sketch.	10M	1	L2
	OR			
12	Explain cold chamber and Hot chamber method of Die casting.	10M	1	L2
13	Explain with advantages and disadvantages of arc welding over gas welding.	10M	2	L2
	OR			
14	What do you know about "thermite welding"? How heat is generated in thermite welding?	10M	2	L2
15	List different types of welding defects and explain any three of them.	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: (a)Progressive Die (b) Compound Die	(5+5)M	4	L2
19	Explain advantages and application of sheet metal operations as compared to other process.	10M	5	L2
	OR			
20	Classify different forging tools and explain any two of them.	10M	5	L2