



R18 Regulation

Subject code:2E4CA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, December 2025

MANUFACTURING PROCESS

(ME)

Maximum Marks: 70

Date:23.12.2025

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	What is gating ratio?	2M	1	L1
2	Why investment casting is so named?	2M	1	L1
3	List principle advantage of DC arc welding over AC arc welding	2M	2	L1
4	Distinguish consumable and non-consumable electrodes	2M	2	L1
5	What are four major draw backs of hot working	2M	3	L1
6	Classify different testing methods of welding	2M	3	L1
7	Distinguish coining and embossing process	2M	4	L1
8	What is the application of press forging?	2M	4	L1
9	List different forging hammers	2M	5	L1
10	List different types of casting process	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	What do you understand by centrifugal casting? Explain.	10M	1	L2
	OR			
12	Compare cold chamber and Hot chamber method of Die casting.	10M	1	L2
13	Differentiate arc welding with gas welding.	10M	2	L2
	OR			
14	Describe with the help of neat sketch explain the principle of friction 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 cold spinning process with neat sketch.	10M	4	L2
19	Explain any two types of extrusion process with neat sketch.	10M	5	L2
	OR			
20	Explain any two types of forging hammers.	10M	5	L2

