



Regulation R18

Subject code: 2E4CA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech IV Semester Supplementary Examinations, February 2024**MANUFACTURING PROCESS**

(Mechanical Engineering)

Maximum Marks: 70**Date: 23.02.2024 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 10 questions. Answer any 5 questions 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	BTL
1	Explain various Pattern allowances?	CO1	L2
2	What does gating system consist of?	CO1	L1
3	What is the purpose of coating on the arc welding electrode	CO2	L3
4	Define Heat effected Zone One	CO2	L2
5	List different types rolling processes	CO3	L1
6	List various cold forming process?	CO3	L1
7	Distinguish coining and embossing process	CO4	L2
8	What is the application of press forging?	CO4	L3
9	List different forging hammers	CO5	L1
10	List different types of casting process	CO5	L1

Part-B

Answer all the questions

(10MX 5=50Marks)

11	What are different types of gates. Explain any three of them with neat sketch. [10]	CO1	L5
	OR		
12	Explain the requirements of a good casting design with examples. [10]	CO1	L5
13	Distinguish arc welding with gas welding. [10]	CO2	L4
	OR		
14	Describe with the help of neat sketch explain the principle of friction welding. [10]	CO2	L5
15	List different types of welding defects and explain any three of them. [10]	CO3	L5
	OR		
16	Explain the Electron beam welding method with neat sketch. [10]	CO3	L5
17	Distinguish open die forging with closed die forging? [10]	CO4	L4
	OR		
18	Explain sheet bending operations with neat sketch. [10]	CO4	L5
19	Explain wire drawing process with neat sketch. [10]	CO5	L5
	OR		
20	How do you produce the tubes by using tube extrusion process? [10]	CO5	L3

