



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 2024

MANUFACTURING PROCESS
(Mechanical Engineering)

Maximum Marks: 70

Date: 10.12.2024

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	Define Heat effected Zone1	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)		CO	Bloom Tx
11	What do you understand by centrifugal casting? Explain. [10M]	1	L2
	OR		
12	Explain the requirements of a good casting design with examples. [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	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 any two types of extrusion process with neat sketch. [10M]	5	L2
	OR		
20	Explain any two types of forging hammers. [10M]	5	L2