



R18 Regulation

Subject code:2E7CB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, November 2025

WELDING TECHNOLOGY

(ME)

Maximum Marks: 70

Date: 01.12.2025

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	Define metal inert gas welding (MIG) process	2M	1	L1
2	What are the types of flames in oxy-acetylene welding process.	2M	1	L1
3	What is Upset Butt Welding?	2M	2	L1
4	Define resistance welding.	2M	2	L1
5	What is solid state welding process?	2M	3	L1
6	Write the advantages of diffusion welding.	2M	3	L1
7	Explain welding automation in nuclear sector.	2M	4	L1
8	What are the industrial applications of narrow gap welding process?	2M	4	L1
9	What are the limitations of Radiographic Inspection?	2M	5	L1
10	What are the factors which are causing distortion?	2M	5	L1

Part-B

Answer All the following questions.

(5X10M=50Marks)

		Marks	CO	BTL
11	Briefly explain the working principle of Metal Inert Gas Welding and their components with a neat sketch?	10M	1	L2
	OR			
12	Explain the carbon welding technique with help of a neat sketch, also mention its applications	10M	1	L2
13	Briefly explain the construction and working principle of Resistance Welding process.	10M	2	L2
	OR			
14	Explain the working of Spot Welding (SW) and their advantages and limitations.	10M	2	L2
15	Explain Advantages, Limitations and Applications of Explosive Welding.	10M	3	L2
	OR			
16	Briefly explain the Friction welding process with neat diagram.	10M	3	L2
17	Explain operation of Thermit Welding.	10M	4	L2
	OR			

18	Brief explain of atomic hydrogen welding.	10M	4	L2
19	Write major defects which are causing in the weld and explain their remedies?	10M	5	L2
	OR			
20	Explain Ultrasonic Inspection?	10M	5	L2

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