R18 Regulation *Subject code:2E7CB*

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, May 2026

WELDING TECHNOLOGY

(ME)

Maximum Marks: 70 Date: 14.05.2026 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	Why filler material is required in some of the welding processes?	2M	1	L1
2	State tungsten inert gas welding (TIG) process.	2M	1	L1
3	List down the applications of spot 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	What are the applications of termite welding?	2M	4	L1
8	Define Pressure welding process.	2M	4	L1
9	What are the industry applications of narrow gap welding process?	2M	5	L1
10	Write about general guidelines to weld stainless steel parts.	2M	5	L1

Part-B

Answer All the following questions. (5X10M=50Marks)		Marks	CO	BTL
11	Explain the carbon welding technique with a neat sketch.	10M	1	L2
	OR			
12	Explain about the Oxyacetylene Gas Welding process.	10M	1	L2
13	Briefly explain the construction and working 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	What are advantages, limitations and applications of atomic hydrogen welding?	10M	4	L2
	OR			
18	Brief explain of atomic hydrogen welding.	10M	4	L2
19	Brief explanation of Radiographic Inspection.	10M	5	L2
	OR			
20	Write short notes on weldability of Aluminum alloys.	10M	5	L2