



R17 Regulation

Subject code: 1E7CB

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

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

B.Tech VII Semester Supplementary Examinations, April 2024

WELDING TECHNOLOGY
(Mechanical Engineering)

Maximum Marks: 70

Date: 25.04.2024 Duration: 3 Hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 10 marks. Answer all questions in Part A.
 3. Part B consists of 10 questions. Answer any 5 questions which carries 12M.
 4. Each question carries 12 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10X2M=20 Marks)

1. Classify the flames of oxy-acetylene welding process.
2. Define filler.
3. Define resistance welding.
4. List down the any two applications of spot welding.
5. State any two characteristics Cold welding process.
6. What are materials that can be welded using friction welding process?
7. Write a short note on electron beam welding (EBM)
8. Explain welding automation in nuclear sector.
9. What are the industry applications of narrow gap welding process?
10. Explain lack of root penetration.

Part-B

Answer all the questions

(5X10M=50Marks)

11. Explain about the Oxyacetylene Gas Welding process and also state its advantages. [10]
OR
12. Explain the carbon welding technique with help of a neat sketch, also mention its applications. [10]
13. Briefly explain the construction and working principle of Resistance Welding process. [10]
OR
14. Explain the projection welding process with help of a neat sketch. [10]
15. Explain Advantages, Limitations and Applications of Explosive Welding. [10]
OR
16. Briefly explain the Friction stir welding process with neat diagram. [10]
17. What are advantages, limitations and applications of atomic hydrogen welding? [10]
OR
18. Explain welding automation in nuclear sector. [10]
19. Brief explanation of Radiographic Inspection. [10]
OR
20. Write weldability of stainless steels. [10]