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Reg. No. :
Question Paper Code: 51225
B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.
Fifth/Sixth/Seventh Semester
Mechanical Engineering
PR 8592 – WELDING TECHNOLOGY
(Common to : Mechanical Engineering (Sandwich)/Production Engineering)
(Regulations 2017)
Time: Three hours Maximum: 100 marks
Answer ALL questions.
Write a short note on the role of welding in engineering field. Brumerate the various types of resistance welding. State the formula used for heat generation in resistance welding. Write the various stages of mechanism of diffusion bonding. Define roll bonding welding process. Write the chemical reaction during in thermit welding process. Mention the various welding methods used in aerospace industry. Define 'polar moment of inertia' for long fillet weld. Classify the various types of non destructive testing.
PART B — $(5 \times 13 = 65 \text{ marks})$
 (a) Explain in detail the carbon welding technique with a neat sketch. Also mention its applications.
Or
(b) Draw a neat sketch and explain the working of Electro slag and Electro gas welding.

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