

2209T138

D. Voc
Mechanical Manufacturing
Subject: Fabrication Processes
Subject Code: ME-507
Semester: Fifth
Session:- September 2022
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything in the question paper.
6. Whenever necessary, the diagram drawn should be neat and properly labeled.

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2209T138

SECTION – A (OBJECTIVE TYPE QUESTIONS)

(10 × 1 = 10 Marks)

- A. Classify electrodes?
- B. What is weldability?
- C. What are residual stresses?
- D. List different welding equipments?
- E. What are safety codes?
- F. What are the different methods of inspection?
- G. What are welding fluxes?
- H. Define basicity index.
- I. What are the main causes of distortion?
- J. Enlist the safety codes that are used for welding.

SECTION – B (ESSAY TYPE QUESTIONS)

(5×5 = 25 Marks)

1. Which type of gases are used in welding? What are their characteristics?
2. What are the different types of coatings? Explain any two types in detail.
3. Explain the different weldability tests? What are the common factors that affect weldability?
4. Explain the standard procedure of performing tensile and bend test of a weldment.

2209T138

5. Explain the different methods to control distortion and residual stresses in the weldment.
6. Enlist the safety practices that should be adopted related to welding operation.
7. What precautions should be taken to protect our eyes and face during welding and cutting operations? Give a broad classification of fluxes.
8. Explain with a sketch the principle and procedure of a dye penetrant inspection.

End of Paper