

Seat No.: \_\_\_\_\_

Enrolment No.: \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER –IV • EXAMINATION – WINTER – 2017**

**Subject Code: 3345502**

**Date:07-11 -2017**

**Subject Name: Sheet Metal Fabrication**

**Time: 02:30 PM TO 05:00 PM**

**Total Marks: 70**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Each question carry equal marks (14 marks)

- Q.1** (a) Describe Profile of sheet metal fabrication supervisor required in industry. **07**  
(b) Describe defects in sheet metal formed parts with neat sketch. **07**
- Q.2** (a) Define soldering process. **07**  
Describe the concept of soldering mechanism with sketch.  
(b) List out advantages, disadvantages and limitation of soldering process. **07**
- OR**
- (b) Describe the brazing mechanism. **07**  
List out advantages, disadvantages Brazing process.
- Q.3** (a) List out types of welding flames. **07**  
Describe the chemistry of oxy-acetylene flames  
(b) Draw neat sketch of equipment set up used for Oxy-acetylene gas welding process. **07**  
Describe the procedure for Gas welding in workshop.
- OR**
- Q.3** (a) List out advantages of welding over soldering and brazing. **07**  
Compare welding , brazing and braze welding.  
(b) List out the safety aspects need to account while doing gas welding. **07**
- Q.4** (a) Describe the press tool dies. **07**  
(b) List out Press tool operations. **07**  
Describe any two of them.
- OR**
- Q.4** (a) Describe Spot welding and Seam welding with neat sketch. **07**  
(b) Describe Percussion welding and Projection welding with neat sketch. **07**
- Q.5** (a) Describe the mechanical fastening of Sheet Metal **07**  
(b) List out sheet Metal Work Applications **07**
- OR**
- Q.5** (a) List out advantages, limitation and application of Resistance Welding Process **07**  
(b) List out advantages, limitation and application of Gas Welding **07**

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