

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering Sem. - IV - Examination – June- 2011

Subject code: 345502

Subject Name: Sheet Metal Fabrication

Date: 04/06/2011

Time: 02:30 pm – 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. English version is Authentic

- Q.1** (a) Explain duties and quality of sheet metal shop supervisor. **07**
(b) Make sheet metal pattern layout of Funnel made in shop. **07**
- Q.2** (a) Explain different sheet metal joints with neat sketch. **07**
(b) List different hand tools used in sheet metal fabrication shop. **07**
Explain any five with neat sketch.
- OR**
- (b) List different sheet metal shearing operations and explain any five with neat sketch. **07**
- Q.3** (a) Draw neat sketch of press tool assembly and label its Parts. **07**
(b) Explain brazing process with neat sketch, write Advantages, limitations and application of it. **07**
- OR**
- Q.3** (a) Explain function of regulator and back fire arrestors in gas Welding. **07**
(b) Compare soldering, brazing and gas Welding process. **07**
- Q.4** (a) Explain different types of gas welding flames with neat sketch. **07**
(b) Explain different safety precautions to be taken in Gas welding shop. **07**
- OR**
- Q.4** (a) Differentiate between sheet metal and plate. Classify sheet metal joining process in chart form. **07**
(b) Explain advantages and limitations of welded joint over riveted joints. **07**
- Q.5** (a) Explain definition, procedure, advantages, limitation and application of spot welding with neat sketch **07**
(b) List different sheet metal application and explain any TWO with neat sketch. **07**
- OR**
- Q.5** (a) Explain principle of resistance welding with neat sketch and prepare its classification chart. **07**
(b) Explain resistance welding quality control. **07**
