

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Sem-IV Examination July 2010****Subject code: 345502****Subject Name: Sheet Metal Fabrication****Date: 06 /07 /2010****Time: 10:30am-1:00pm****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 different sheet metal joints with neat sketch. **07**
 (b) Explain sheet metal pattern lay out with neat sketch. **07**
- Q.2** (a) Explain mechanism of shearing action in press tool. **07**
 (b) List different sheet metal shearing operations and explain any five with neat sketch. **07**
- OR**
- (b) Explain soldering process with neat sketch, write Advantages, limitations and application of it. **07**
- Q.3** (a) Explain brazing process with neat sketch, write Advantages, limitations and application of it. **07**
 (b) Define “gas welding process” explain its principle of Operation. **07**
- OR**
- Q.3** (a) Explain different types of gas welding flames with Neat sketch. **07**
 (b) Explain method of ignition and adjusting gas Welding flame and chemistry of flames. **07**
- Q.4** (a) Make sheet metal development of Funnel made in shop. **07**
 (b) Explain different safety precautions to be taken in Gas welding shop. **07**
- OR**
- Q.4** (a) Define “resistance welding process”. Explain Different variables of resistance welding process. **07**
 (b) Explain definition, procedure, advantages, limitation And application of Spot welding with neat sketch. **07**
- Q.5** (a) Explain definition, procedure, advantages, limitation And application Seam welding with neat sketch. **07**
 (b) Explain advantages and limitations of welded joint over riveted joints. **07**
- OR**
- Q.5** (a) Explain different sheet metal work applications. **07**
 (b) Explain spring back effect in sheet metal work and Method to reduce it. **07**