

GUJARAT TECHNOLOGICAL UNIVERSITY**DIPLOMA ENGG.- IVth SEMESTER-EXAMINATION – JUNE- 2012****Subject code: 345502****Date: 18/06/2012****Subject Name: Sheet Metal Fabrication****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 considered to be Authentic

- Q.1** (a) Make pattern development of AC Duct shown in fig – 1 **07**
(b) List different hand tools used in sheet metal fabrication shop. **07**
Explain any five with neat sketch.
- Q.2** (a) Explain spring back effect in sheet metal work and method to reduce it. **07**
(b) Explain different types of sheet metal joints with neat sketch and write application of each joint. **07**
- OR**
- Q.3** (b) Explain mechanism of shearing action in press tool with neat sketch **07**
(a) List different press tool dies and explain combination die and compound die with neat sketch. **07**
(b) List different shearing operation and explain any five with neat sketch **07**
- OR**
- Q.3** (a) Explain press tool assembly with neat sketch **07**
(b) Compare soldering, brazing, & gas welding process. **07**
- Q.4** (a) Explain different safety precautions to be taken in gas welding shop. **07**
(b) Explain different types and application of different gas welding flames. **07**
- OR**
- Q. 4** (a) Explain definition, procedure, advantages, limitation & application with neat sketch of Spot welding **07**
(b) Define “resistance welding process”. Explain different variables of resistance welding process. **07**
- Q.5** (a) Explain quality control in resistance welding. **07**
(b) Explain advantages & limitation of welded joint over riveted joints. **07**
- OR**
- Q.5** (a) Explain need, importance and limitation of sheet metal fabrication. **07**
(b) List different sheet metal fabrication application and explain any three with neat sketch **07**

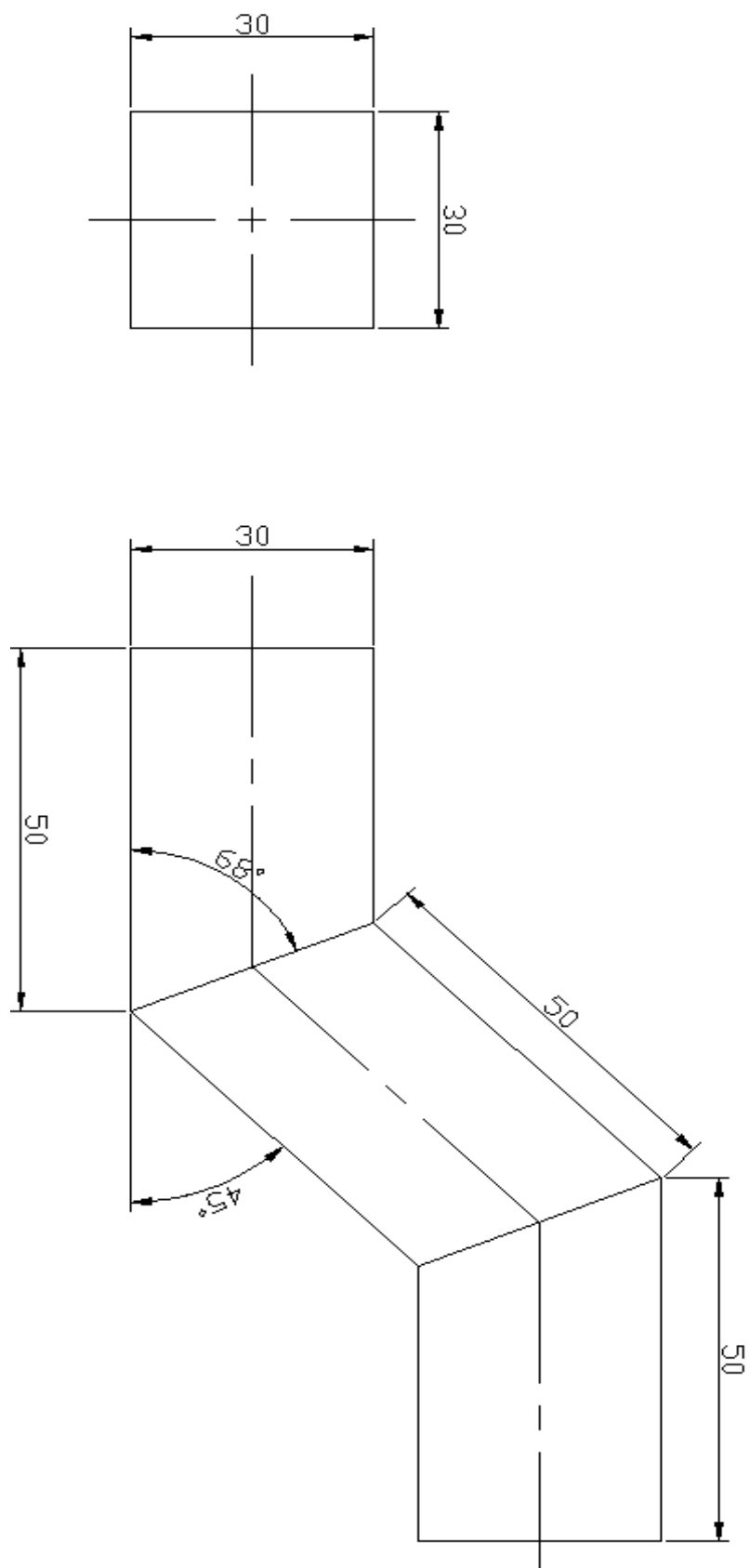


FIG - 1

QUE 1 (A)