

GUJARAT TECHNOLOGICAL UNIVERSITY**Diploma Engineering - SEMESTER-IV • EXAMINATION – SUMMER • 2014****Subject Code: 3345502****Date: 27-05-2014****Subject Name: Sheet Metal Fabrication****Time: 10:30 am - 01:00 pm****Total Marks: 70****Instructions:**

1. Attempt any five 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) Prepare sheet metal pattern development of liter cane shown in Fig. - 1 **07**
(b) Explain knowledge, attitude, skill required for sheet metal fabrication supervisor **07**
- Q.2** (a) List different press working dies and Explain any three with neat sketch. **07**
(b) List different soldering method and Explain soldering iron method with neat sketch. **07**
- OR
- (b) Explain advantages, limitation and application of soldering process. **07**
- Q.3** (a) Write steps of brazing procedure and Explain surface cleaning of base metal in brazing. **07**
(b) Define “gas welding process” and Explain its principle of operation with neat sketch. **07**
- OR
- Q.3** (a) List different brazing process and Explain torch brazing process with neat sketch. **07**
(b) Explain different types of gas welding flames with neat sketch. **07**
- Q.4** (a) Explain gas welding technique with neat sketch. **07**
(b) Write safety precautions required for gas welding cylinder. **07**
- OR
- Q. 4** (a) Comparing soldering, brazing & gas welding process in table form. **07**
(b) Define the resistance welding process. Explain generation of heat of resistance welding process with neat sketch. **07**
- Q.5** (a) Write advantages, limitation and application of resistance welding process. **07**
(b) Write definition of spot welding and Explain procedure of spot welding with neat sketch. **07**
- OR
- Q.5** (a) Compare riveted and welding joint. **07**
(b) List different application of sheet metal work and Explain any two with neat sketch. **07**

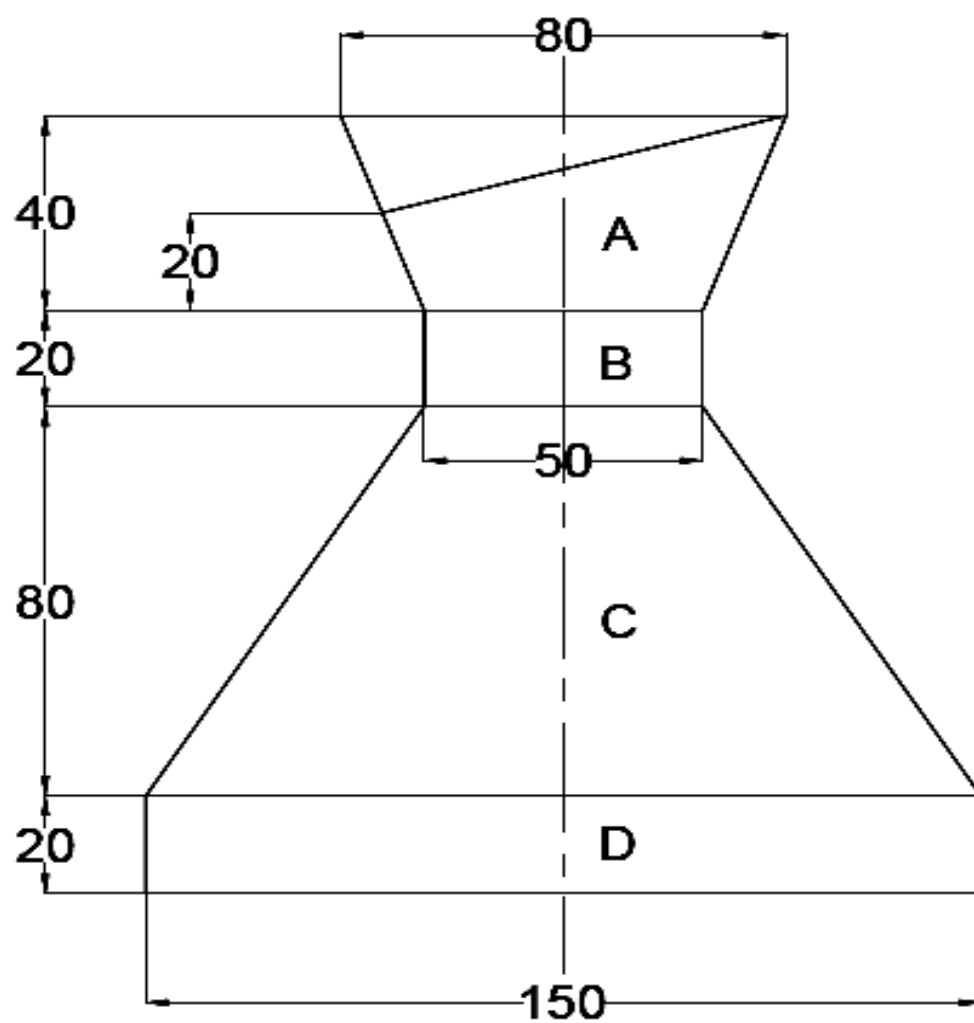


FIG. 1 Liter Cane