Seat No.: _____ Enrolment No._____

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**

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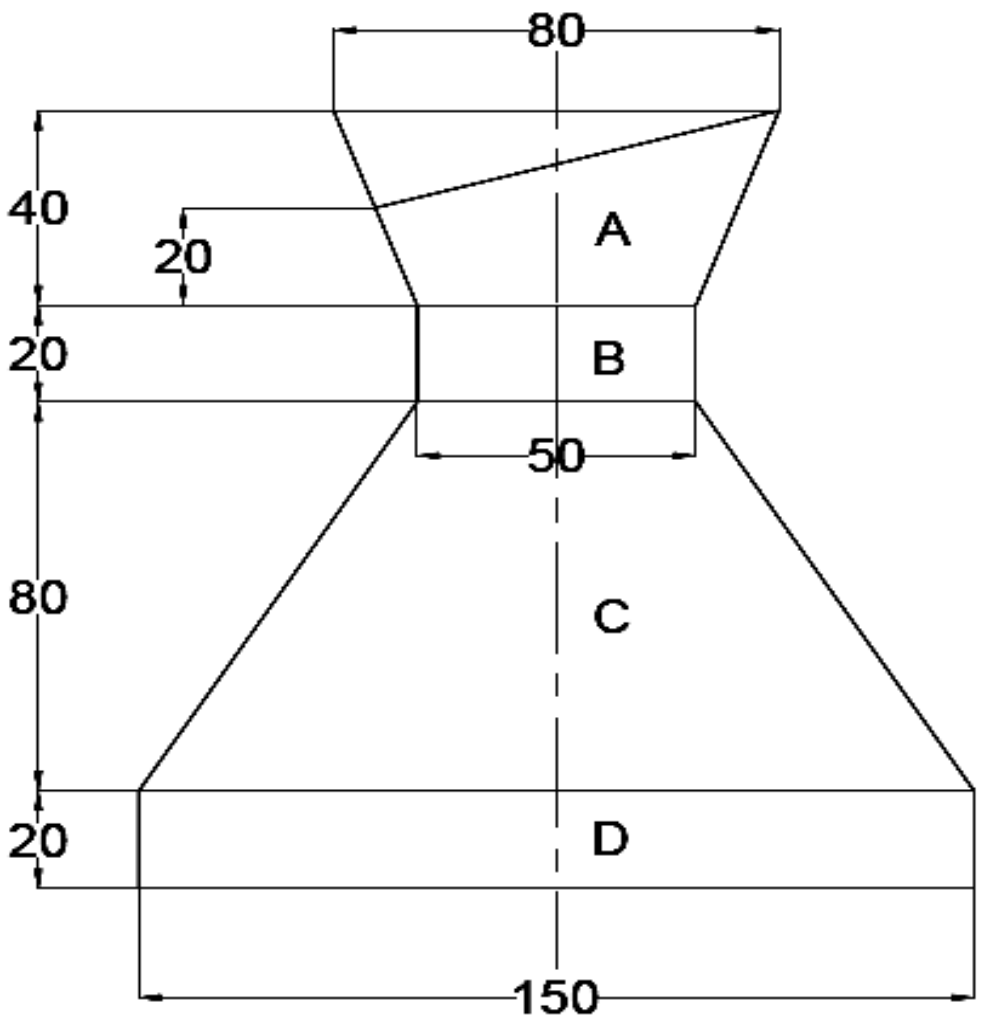

FIG. 1 Liter Cane