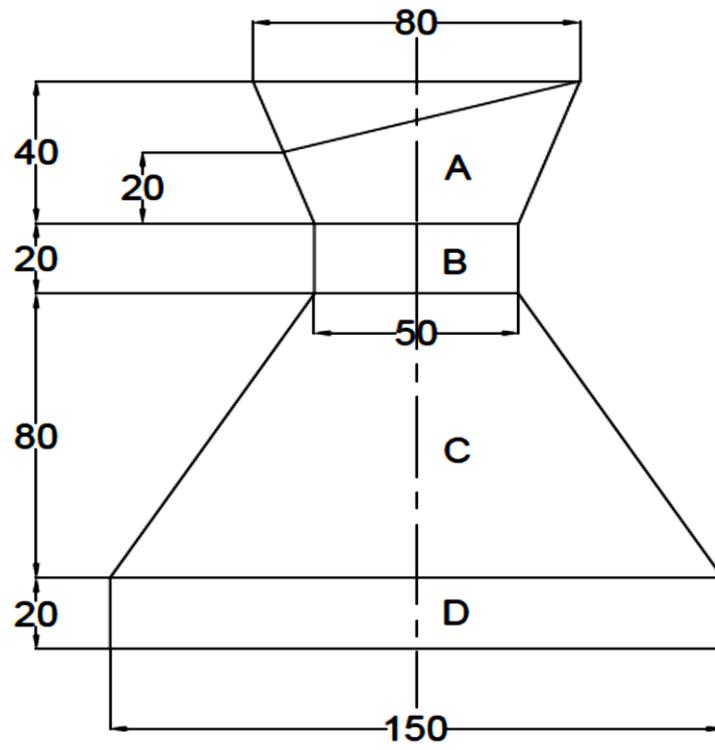


GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –IV • EXAMINATION – SUMMER-2015

Subject Code: 3345502**Date: 04/05/2015****Subject Name: Sheet Metal Fabrication****Time: 10:30 AM TO 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) Draw pattern development of object shown in Fig.-1. 07
(b) Explain different sheet metal joint with neat sketch. 07
- Q.2 (a) Explain press tool assembly with neat sketch. 07
(b) Explain following press working dies with neat sketch. 07
1. Compound dies.
2. Combination dies.
3. Progressive dies.
- OR
- (b) Define soldering fluxes. List different types of soldering fluxes. 07
Explain different selection criteria for soldering fluxes.
- Q.3 (a) List different soldering method and Explain soldering torch method with neat sketch. 07
(b) Write steps of brazing procedure and Explain surface cleaning of base metal in brazing. 07
- OR
- Q.3 (a) Write advantages, limitation and application of brazing process. 07
(b) Explain gas welding equipment with neat sketch. 07
- Q.4 (a) Explain gas welding technique. (Leftward technique, Rightward technique) with neat sketch. 07
(b) Explain different types of resistance to be considered in resistance welding process with neat sketch. 07
- OR
- Q. 4 (a) Write definition of spot welding and Explain procedure of spot welding with neat sketch. 07
(b) Write definition of upset butt welding and Explain its principle of operation with neat sketch. 07
- Q.5 (a) Write advantages, limitation and application of seam welding process. 07
(b) Draw different types of riveted joint. 07
- OR
- Q.5 (a) Compare riveted and welded joint. 07
(b) Explain application of sheet metal working in following industries. 07
1) Refrigeration and air condition industries.
2) Furniture fabrication industries.



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Fig – 1 Que 1-(A)