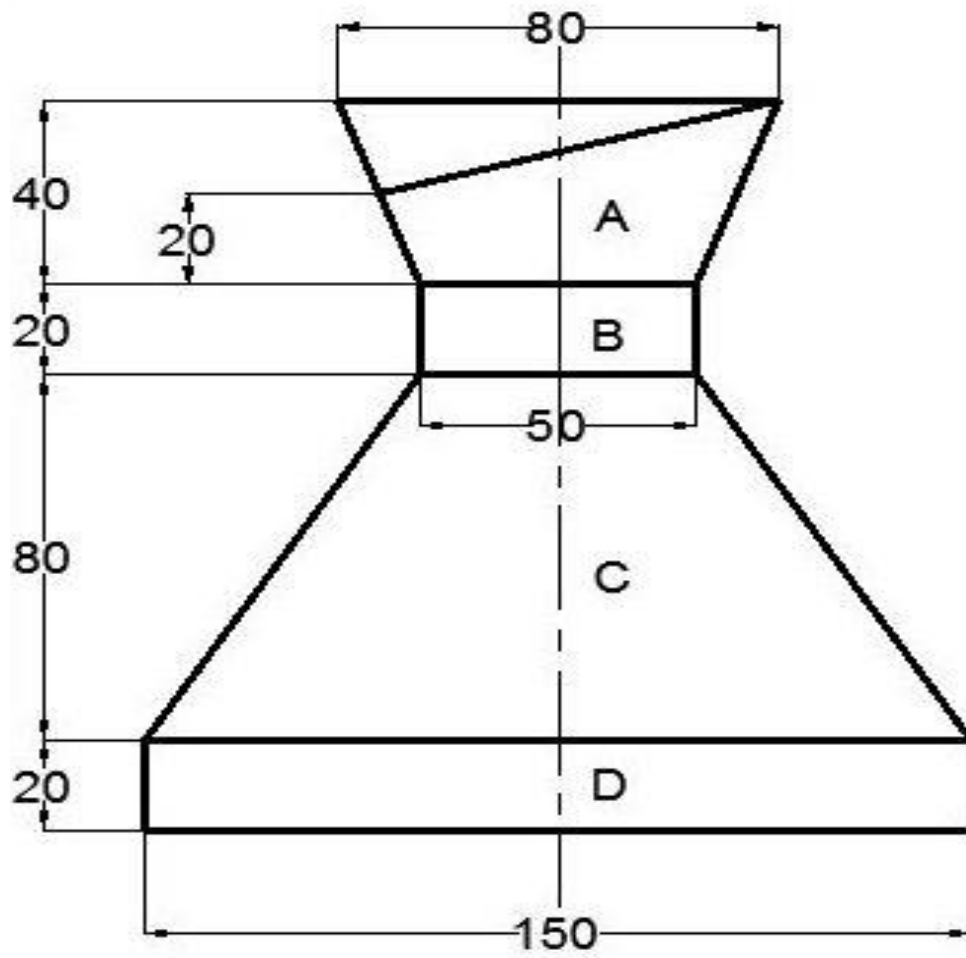


GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING - SEMESTER-IV • EXAMINATION – WINTER - 2016

Subject Code: 3345502**Date: 19- 11-2016****Subject Name: Sheet Metal Fabrication****Time: 02:30 PM TO 05:00 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) Draw neat sketch of following press working Dies. 07
1) Single operation dies.
2) Compound dies.
3) Combination dies.
4) Progressive dies.
5) Forming dies.
- OR
- (b) Define the soldering process. Explain principles of good soldering process. 07
- Q.3 (a) List different soldering method and Explain soldering iron method with neat sketch. 07
(b) Write definition of brazing and Explain its principle of operation with neat sketch. 07
- OR
- Q.3 (a) Write steps of brazing procedure and Explain surface cleaning of base metal in brazing. 07
(b) Explain different types of gas welding flames with neat sketch. 07
- Q.4 (a) Explain gas welding technique. (Leftward technique, Rightward technique) with neat sketch. 07
(b) Explain gas welding equipment with neat sketch. 07
- OR
- Q. 4 (a) Write safety precautions required for pressure regulator and hose or gas tubes. 07
(b) Write advantages, limitation and application of resistance welding process. 07
- Q.5 (a) Explain resistance welding cycle with neat sketch 07
(b) Compare riveted and welding joint. 07
- OR
- Q.5 (a) Write definition of upset butt welding and Explain its principle operation with neat sketch. 07
(b) Explain application of sheet metal working in following industries. 07
1) Vehicle body building.
2) Furniture fabrication industries.



LITER CANE

Fig – 1 Que 1-(A)