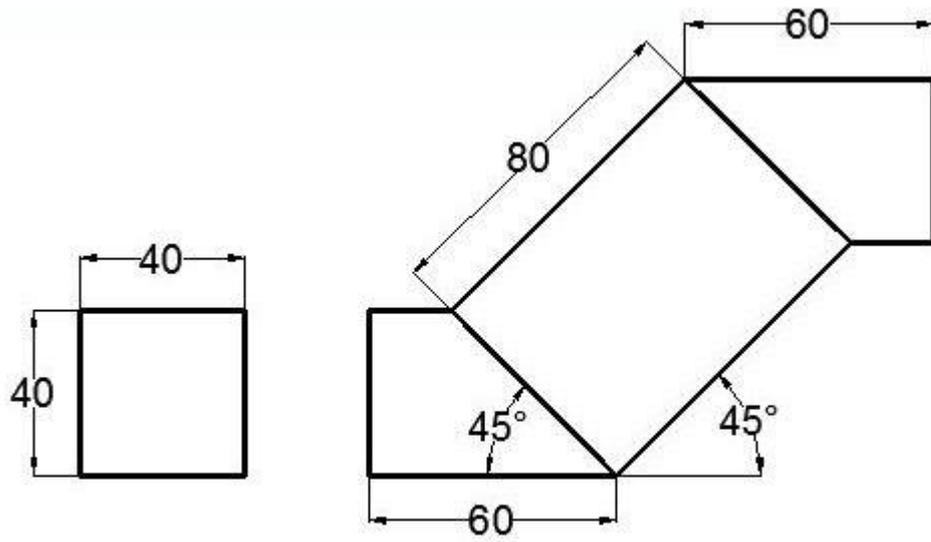


**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA ENGINEERING – SEMESTER – IV • EXAMINATION – SUMMER 2017**

**Subject Code: 3345502****Date: 29-04-2017****Subject Name: Sheet Metal Fabrication****Time: 10.30 TO 1.00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of only simple calculator is permitted in Mathematics.
6. English version is authentic.

- Q.1** (a) Draw pattern development of object shown in Fig.-1. **07**  
 (b) Explain different metals use in sheet metal work. **07**
- Q.2** (a) Explain different types of gas welding flames with neat sketch. **07**  
 (b) List different press working Dies. Describe any Two die with neat sketch. **07**
- OR
- (b) List different press working shearing operation. Explain any Five operations with neat sketch. **07**
- Q.3** (a) Define soldering fluxes. Explain different types of soldering fluxes with neat sketch. **07**  
 (b) Define the process “Brazing”. Write its procedure and draw different brazing joints. **07**
- OR
- 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**
- Q.4** (a) Write definition of spot welding and Explain procedure of spot welding with neat sketch. **07**  
 (b) Explain gas welding technique. (Leftward technique, Rightward technique) with neat sketch. **07**
- OR
- Q.4** (a) Explain different types of resistance to be considered in resistance welding process with neat sketch. **07**  
 (b) Write advantages, limitations and applications of gas welding. **07**
- Q.5** (a) Draw different types of riveted joint. **07**  
 (b) Explain application of sheet metal working in following industries. **07**
1. Vehicle body building.
  2. Furniture fabrication industries.
- OR
- Q.5** (a) Write definition of seam welding and explain principal of operation with neat sketch. **07**  
 (b) Compare riveted and welding joint. **07**



**AC DUCT**

Fig. -1 Que. 1-(A)

\*\*\*\*\*