Sea No.__

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-IV • Examination – WINTER • 2014				
	Subje	ect Code: 3345502 Date: 28-11-201	4	
	Subject Name: Sheet Metal Fabrication Time: 02:30 pm - 05:00 pm Instructions: Total Mark		s: 70	
		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. English version is considered to be Authentic. 		
Q.1	(a) (b)	Draw pattern development of AC duct shown in Fig1. Explain different sheet metal hand tool with neat sketch.	07 07	
Q.2	(a)	List different press working Die's and Explain any three with neat sketch.	07	
	(b)	Define the soldering process. Explain principles of good soldering process.	07	
	(b)	OR Define soldering fluxes. List different types of soldering fluxes. Explain different selection criteria for soldering fluxes.	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	
Q.3	(a)	OR List different brazing process and Explain furnace brazing	07	
	(b)	process. Explain chemistry of oxy-acetylene flame.	07	
Q.4	(a)	Explain gas welding torch with neat sketch.	07	
	(b)	Define the resistance welding process. Explain generation of heat of resistance welding process with neat sketch. OR	07	
Q. 4	(a)	Comparing soldering, brazing & gas welding process in table Form.	07	
	(b)	Explain rocker-arm spot welding machine with neat sketch.	07	
Q.5	(a)	Write safety precaution received for gas welding torch and tips and general precaution.	07	
	(b)	Write definition of percussion welding and Explain its principal operation with neat sketch. OR	07	
Q.5	(a)	Explain different types of screw fastening with neat sketch.	07	
	(b)	Explain application of sheet metal working in following industries.	07	
		 Vehicle body building. Refrigeration and air condition industries. 		

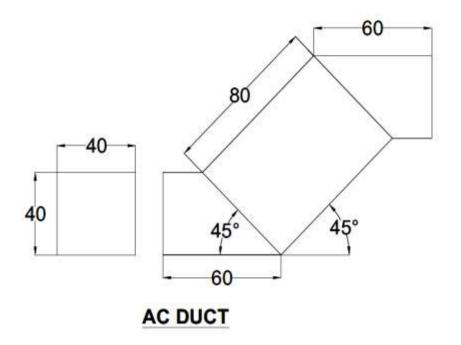


Fig - 1