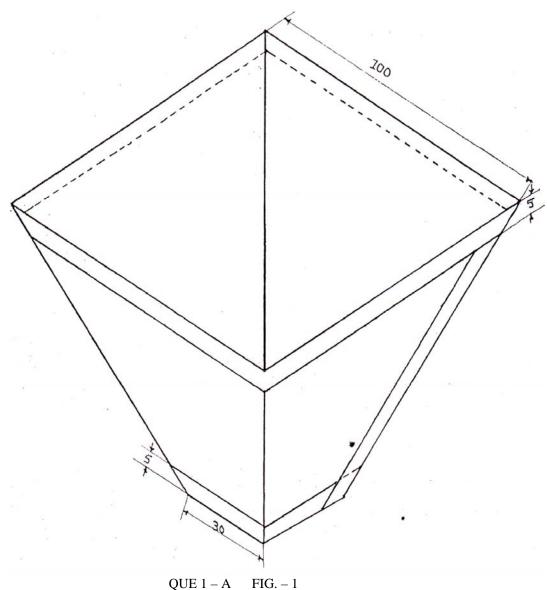
Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-IV • EXAMINATION – SUMMER 2013

Subj	ect (Cod	le: 345502 Date: 05-06-2013	Date: 05-06-2013	
Subj	ect 1	Nan	ne: Sheet Metal Fabrication		
Time: 10:30 am - 01:00 pm Total Mar)	
Instru					
	2. 3.	Mal Figu	empt all questions. ke suitable assumptions wherever necessary. ures to the right indicate full marks. glish version is considered to be Authentic.		
Q.1	((a)	Make sheet metal pattern development of Hopper shown in fig 1	07	
Q.1		(b)	Explain spring back effect in sheet metal work and method to reduce it.	07	
Q.2	`	(0)		0,	
C	((a)	Explain mechanism of shearing action in press tool.	07	
		(b)	Explain characteristics of sheet metal with regard to various forming operation.	07	
			OR		
0.0	((b)	Explain different of sheet metal joints and give its application.	07	
Q.3	((a)	Explain soldering process with neat sketch, write advantages, limitation & application of it.	07	
	((b)	Define "gas welding process" Explain its principle of operation with neat sketch.	07	
			OR		
Q.3	((a)	Explain different safety precautions to be taken in gas welding shop.	07	
	((b)	Explain types and application of different gas welding flames	07	
Q.4				. –	
		(a)	Explain gas welding techniques with neat sketch.	07	
	((b)	Explain function of regulator and back fire arrestors in gas welding. OR	07	
Q. 4	((a)	Define "resistance welding process". Explain different variables of resistance welding process.	07	
	((b)	Describe spot welding equipment with neat sketch giving functions of each part.	07	
Q.5					
		(a)	Explain quality control in resistance welding.	07	
	((b)	Explain advantages & limitation of welded joint over riveted joints.	07	
~ -			OR	. –	
Q.5	((a)	Draw neat sketch of different riveted joints, 1. Single strip butt joint (Single riveted & double riveted.) 2. Double strip butt joint (Single riveted & double riveted.) 3. Lap joint	07	
	((b)	3. Lap joint List different sheet metal work application and explain any one with neat sketch.	07	



 $\begin{array}{c} \text{QUE 1-A} \\ \text{NOTE :- (1)} \quad \text{All dimensions are in mm} \\ \text{(2)} \quad \text{Height of hopper is 50 mm} \end{array}$
