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Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY Diploma Engineering - SEMESTER-III • EXAMINATION - WINTER 2013

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	U	Code: 345502 Date: 28-11-2013  Name: Sheet Metal Fabrication	
Ti	•	02:30 pm - 05:00 pm Total Marks: 70	
	2. M 3. Fi	ttempt any five questions.  Take suitable assumptions wherever necessary.  igures to the right indicate full marks.  ach question carry equal marks (14 marks)	
Q.1	(a) (b)	Prepare sheet metal pattern development of Hopper shown in Fig1 List different hand tools used in sheet metal fabrication shop. Explain any five with neat sketch.	0' 0'
Q.2	(a) (b)	Explain duties and quality of sheet metal shop supervisor.  Explain mechanism of shearing action in press tool with neat sketch  OR	0' 0'
	(b)	List different sheet metal shearing operations & explain any five with neat sketch.	0'
Q.3	(a)	Explain soldering process with neat sketch; write advantages, limitation & application of it.	0'
	(b)	Write short note on brazing, its consumable and application.  OR	0'
Q.3	(a) (b)	Define "gas welding process". Explain its principle of operation. Explain different safety precautions to be taken in gas welding shop.	0' 0'
Q.4	(a)	Explain types and application of different gas welding flames with neat sketch.	0'
	(b)	Explain gas welding techniques with neat sketch.  OR	0'
Q. 4	(a)	Define "resistance welding process". Explain different variables of resistance welding process.	0'
	(b)	Explain quality control in resistance welding.	0'
Q.5	(a)	Explain definition, procedure, advantages, limitation & application with neat sketch of Spot welding	0'
	(b)	Explain definition, procedure, advantages, limitation & application with neat sketch of Seam welding	0'
Q.5	(a)	OR Explain advantages & limitation of welded joint over riveted joints.	0′
•	(b)	Explain different sheet metal work application.	0'

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