Seat N	No.:		Enrolment No								
D	IPLOM	GUJARAT TECHNO IA ENGINEERING – SEME							2015		
Subj	ect Co	de: 3335505	Date: 09/12/2015					015			
U		me: FAB TECH -I									
		0 AM TO 1:00 PM	Total Marks: 70								
	uctions										
	-	ot all questions.	* ***********	344¥ 7							
	 Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 										
	4. Write your seat no. and enrolment no. in the above given space Q. PAPER.										
5. Answer with neat sketch and to the point.											
Q.1	(a)	Find out COST & weight of (Take density/ sp. weight of cost of material = 150 RS.	materia						07		
		All Dimension are in mm Data For T-Section:-	NO.	DIMENSION IN MM							
				Н	В	$t_{\rm w}$	t_{f}				
			1	160	100	8	10				
	(b)	Define the term FABRICATION. Classify various types / methods of fabrication and state their area of application									
Q.2	(a)	Described in brief :- The General notes given / use in structural fabrication drawing.									
	(b)	Prepare tabulated chart of commercial forms of metal for any 7							07		

OR

- (b) Prepare a geometrical construction under following condition by using compass, ruler but without protector. Prepare a rectangle ABCD having a length L=80 mm and width W=60 mm Write the steps followed for this construction. State the length of diagonal achieved by drawing.
- Q.3 (a) Described in brief advantages of steel as a fabrication material 07
 - (b) Described with neat sketch Trammels and state their applications / practical **07** use

Q.3	(a)	Described the procedure of fabrication of steel structure as per IS -800 with their salient features.				
	(b)	List out the fabrication operation work performed in structural fabrication workshop. Described in brief: Any two	07			
Q.4	(a)	Classify the various cutting process? Described plasma cutting process in brief?				
	(b)	Describe in brief with neat Sketch: Structural Fit-up & Set-up Of (I - section) OR	07			
Q. 4	(a)	 Classify the various types of punches. Draw their neat sketch Label its element. Described in very brief state its typical application 	07			
	(b)	Describe the method of erection of Industrial Shade steel structures with neat sketch.	07			
Q.5	(a)	Draw a neat sketch of typical Roof truss & Describe their structural fabrication Terminology	07			
	(b)	Describe the process of inspection in structural fabrication industry	07			
		OR				
Q.5	(a)	Describe in brief with neat Sketch terminology of bolts. Classify the various standard Mechanical fasteners / fastening item.	07			
	(b)	Find cost of 2 Meter of 80mm A / F MATERIAL. (Take density/ sp. weight of material = 7.85 gm/ cm ³) (Take cost of material = 85 Rs./ kg.	07			
