Seat No.:						Enrolment No				
	Diplo	GUJARA' oma Engineering								
	-	Code: 333550 Name: Fabric		chnol	Date: 21-06-2014					
Ti	-	0:30 am - 01:0					Tota	l Marks: 70		
	2.	Attempt all que Make suitable a Figures to the r English version	ssumptions ight indicate	e full m	arks.					
Q.1	(a) (b)	Prepare a chart of commercial forms of metal & state their typical application. Find out cost & weight of following sections for 5 M length (Take density/ sp. weight of material = 7.80 gm/ cm ³ & cost of material = 70 RS./ kg) all dimension are in mm DATA FOR T-SECTION:-								
			Sr. No.		Dimensi	on in M	M			
			1	H 80	B 80	t _w 5	4			
Q.2	(a)	1. Classify the various types of punches. 2. Draw their neat sketch Label its element. 3. States its typical application								
	(b)	Draw a neat sketch of a square frame made at 45° fit-up and set-up. Prepare a bill of material (B.O.M.) for it. Calculate the total cost of job considering cost of angle material = 90 Rs/kg, Labor cost = 20 Rs / kg, Assume other costs are negligible. OR								
	(b)	Explain ANY -7 structural fabrications Terminology with neat sketch. 0 ′								
Q.3	(a) (b)	Draw an angle without using protector (m \angle CAB=150°) and divide this angle in to θ_1 =30°, θ_2 =45°, θ_3 =90°, θ_4 =120°, θ_5 =60°(use theme of bisecting of Angle). Write steps for geometrical construction.						07 07		
Q.3	(a) (b)	1 71 71							07 07	
Q.4	(a) (b)	1 71 11							07 07	
). 4	(a)	Prepare list of d	ifferent type	es of io		ess. Co	mnare rive	ted and welded	07	

		OK		
Q. 4	(a)	Prepare list of different types of joining process. Compare riveted and welded		
		joint.		
	(b)	Explain procedure for fabrication of steel structure as per codes.	07	
Q.5	(a)	Classify the various standard mechanical fasteners. Explain with neat Sketch	07	
		Various type of jacks used in industries.		
	(b)	Explain oxy acetylene cutting process with neat sketch.	07	
		OR		
Q.5	(a)	Calculate the weight and cost of job from following data:	07	
		Cost of pipe = 75 Rs. / kg, Density of material = $7.86 \text{ gm} / \text{cm}^3$		
		Pine $OD = \Phi 60 \text{mm}$ $ID = \Phi 44 \text{mm}$ Length of nine = 5 meter		

(b) Explain Erection tools and tackles.

07
