Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-III • EXAMINATION - SUMMER 2013

•		Code: 335504 Date: 15-06-2013	
Time Instru 1. 2. 3. 4. 5.	e: 02: Atten Make Figur Engli Write	Jame: Fabrication Technology - I 30 pm - 05:00 pm Total Marks: 70 Ent all questions. Est suitable assumptions wherever necessary. The statement indicate full marks. The statement is Authentic. Total Marks: 70 Ent all questions. Total Marks: 70 Ent all questions. Total Marks: 70 Ent all questions. Est of the right indicate full marks. The statement is Authentic. Total Marks: 70 Ent all questions. Ent all questions wherever necessary. Total Marks: 70 Ent all questions. Ent all questions wherever necessary. The statement is Authentic where the statement is Authentic. Ent all questions wherever necessary. The statement is Authentic where the stat	
Q.1	(a) (b)		07 07
Q.2	(a) (b)	Draw a chart for classification of fabrication structure based on various types of application. Explain them in brief. 1) Estimate / Calculate the weight and cost of job if the job having following dimensions and data. (Assume If the cost of Profile / Commercial forms of metals = 75 Rs. / kg) (Assume weight density of material = $7.86 \text{ gm} / \text{cm}^3$) Pipe with O.D. = $\Phi 80 \text{mm}$, I.D. = $\Phi 70 \text{mm}$ Length of pipe = 3m 2) A pole stands vertically on the ground. If the angle of elevation of the top of the pole from a point 60 m away from the pole is 30° , find the height of the pole.	07 07
	(b)	OR Define and explain the process of 1) Lining, 2) Leveling, 3) Plumbing, 4) Alignment, 5) Erection tolerance	07
Q.3	(a) (b)	Explain in brief: Characteristics of skilled structural fabrication supervisor as a leader. Explain in brief: The General notes given / use in structural fabrication drawing OR	07 07
Q.3	(a) (b)	List / classify the different types of joining process Compare 1. Welding and riveted Explain in brief with neat Sketch 1. Types of Nuts, 2 Types of washers	07
Q.4	(a) (b)	Explain the advantages ferrous materials /(low carbon steels) as a construction material for structural steel fabrication work. Classify the various standard Mechanical fasteners / fastening item.	07 07

		Explain in brief with neat Sketch: various type of jacks used in industries.	
		OR	. –
Q.4	(a)	Explain the file with neat sketch label their various elements of file.	07
		Classify the files bases on various criteria.	
	(b)	Classify the Hammers in chart form.	07
	` /	1. Draw their neat sketches.	
		2. Label its various parts / elements.	
		3. state it's specification.	
		States its typical application	
Q.5	(a)	Explain the procedure of fabrication of steel structure as per $IS - 800$ with their salient features.	07
	(b)	Explain the method of erection of Industrial shade steel structures.	07
		OR	
Q.5	(a)	Calculate the area of hexagon by dividing hexagon in (size of A/F = 120) Various types geometrical shape and also compare the result of area.	07
	(b)	Explain in brief: - Erection tools and tackles	07
