Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Semester -III (Fabrication Technology) Examination January- 2010

Subject code: 335504 **Subject Name: Fabrication Technology - 1**

Date: 29 / 01 / 2010 **Time: 11.00 am – 1.30 pm**

Total Marks: 70

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **English version is Authentic**

Q.1	**(a)**	Define the term FABRICATION. List various types of methods of fabrication	**07**
	(b)	Explain characteristics of good fabrication supervisor as a leader.	**07**
Q.2			
	(a)	Explain in brief advantages of steel as a fabrication material.	**07**
	(b)	Explain advantages of welded fabrication over other method of fabrication	**07**
		OR	
	(b)	List different types of Fabrication codes and Explain in brief specific requirement of codes & standard.	**07**
Q.3			
	(a)	List out the Third party inspection agencies with their abbreviation. Explain in brief duties of Inspection Agencies Before, During and After welding .	**07**
	(b)	Find out the weight of round bar having a diameter 30 mm of 1 meter length. Assume density of material 7.85 gm / cm^3 .	**07**
		OR	
Q.3	**(a)**	Explain the process of inspection in structural fabrication industry and Explain in brief visual inspection.	**07**
	(b)	Prepare a rectangle having a length 50 mm and width 25 mm by only using the compass / rotor.	**07**
Q.4			
	(a)	Explain in brief preparatory work and important consideration in steel structure erection and Explain in brief erection tolerance.	**07**
	(b)	Explain the oxy-acetylene gas cutting process with neat sketch – equipment, process, advantages, limitation.	**07**
		OR	
Q. 4	**(a)**	Explain the method of protection of fabrication structure against corrosion.	**07**
	(b)	Explain the method of erection of various steel structure. a. Industrial shade b. Erection & installation of column / foundation base plate at site.	**07**
Q.5			
	(a)	Explain in brief a. Drawing room operation. b. Shop floor operation	**07**
	(b)	Explain the procedure of marking & measuring with tools and equipment. Draw its neat sketch.	**07**
		OR	
Q.5	**(a)**	Explain in brief a. Truss fabrication & assembly b. Column fabrication & assembly	**07**
	(b)	Explain Structural set-up & fit-up with neat sketch	**07**

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