Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-IV Examination June- 2010

Subject code: 141801

Subject Name: Fundamental of ship structure

Date: 17 / 06 /2010 **Time: 10.30 am – 01.00 pm**

Total Marks: 70

Instructions:

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

Q.1	**(a)**	Explain different types of NDT method used in ship construction.	**07**
	(b)	Give general classification of ship.	**07**
Q.2	**(a)**	Explain various terms used in ship construction.	**07**
	(b)	What is electric arc welding? Explain manual arc welding and automatic arc welding.	**07**
		OR	
	(b)	Classify welding process & explain Gas welding with sketch.	**07**
Q.3	**(a)**	Mention the types stresses occur in ship, explain any three of them.	**07**
	(b)	Explain water tight doors with neat sketch.	**07**
		OR	
Q.3	**(a)**	Explain transeverse framing and longitudinal framing.	**07**
	(b)	Explain shell plating with neat sketch.	**07**
Q.4	**(a)**	What is rudder? Explain types of rudder with neat sketch.	**07**
	(b)	Describe Bulbous bow with neat sketch.	**07**
		OR	
Q.4	**(a)**	Explain stern frame.	**07**
	(b)	Explain chain locker construction with neat sketch	**07**
Q.5	**(a)**	Explain periodical survey as per statutory regulation.	**07**
	(b)	Explain classification society rules and regulation. Explain Llyods register classification symbol.	**07**
		OR	
Q.5	**(a)**	(i) Explain: Bulkhead (ii) Define: Midship section Keel Double Bottom Deep tank	**07**
	(b)	Differentiate between: I. Riveting and Welding. and II. Gas welding and Arc welding	**07**

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