GUJARAT TECHNOLOGICAL UNIVERSITY BE- IV th SEMESTER-EXAMINATION - MAY/JUNE- 2012 Subject code: 141801 Date: 23/05				
			/05/2012	
Time	Subject Name: Fundamental of ship structure Fime: 10:30 am – 01:00 pm Total Mar		rks: 70	
2.	Atte Mal	ons: Empt all questions. The suitable assumptions wherever necessary. The suitable are the right indicate full marks.		
Q.1	(a) (b)	Give general classification of ships. Explain following stresses produced in ship structure (1) Vertical shear (2) Longitudinal bending stresses (3) Transverse stresses	07 07	
Q.2	(a) (b)	What are the advantages of employing welding over riveted construction. Give classification of electric arc welding processes. Differentiate between TIG welding and MIG welding.	07 07	
	(b)	What is the basic principal of gas cutting? Expain in brief plasma arc cutting.	07	
Q.3	(a) (b)	Differentiate double bottom structure from single bottom structure. Explain following terms with diagram (1) Mid ship structure (2) keel	07 07	
Q.3	(a)	OR Expain the construction of watertight bulkheads. Also explain in brief testing of watertight bulkheads	07	
	(b)	Expain following terms with diagrams (1) Deep tanks (2) Shaft tunnel	07	
Q.4	(a) (b)	What is the importance of Llyods register classification symbol. Explain ship surveys during ship construction. OR	07 07	
0.4	(a)	What is the function of rudder? Expain in brief types of rudders.	07	

(b) Expain submerged arc welding process with working principle,

(b) What is the basic purpose of providing Bulbous bow? How it works?

(b) Explain in brief Pedestal bearing.

Q.5 (a) Expain X- ray testing for ship construction.

advantages and disadvantages.

Q.5

(a) Explain radiography method used in ship testing.

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