

**GUJARAT TECHNOLOGICAL UNIVERSITY****B. E. Semester-IV- Examination June- 2011****Subject code: 141801****Subject Name: Fundamental of Ship Structure****Date: 06/06/2011****Time : 10:30 am to 1:00 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) Give general classification of ship. **07**  
(b) Explain various terms used in ship construction. **07**

- Q.2** (a) Classify welding process & explain gas welding with sketch. **07**  
(b) Describe water tight doors with neat sketch. **07**

**OR**

- (b) What is electric arc welding? Explain manual arc welding and automatic arc welding. **07**

- Q.3** (a) What is rudder? Explain types of rudder with neat sketch. **07**  
(b) Describe stern frame. **07**

**OR**

- Q.3** (a) Explain periodical survey as per statutory regulation. **07**  
(b) Describe Bulbous bow with neat sketch. **07**

- Q.4** (a) Explain transverse framing and longitudinal framing. **07**  
(b) Explain chain locker construction with neat sketch. **07**

**OR**

- Q.4** (a) 1. Explain: Bulkhead **07**  
2. Define: Midship section  
Keel  
Double bottom  
Deep tank  
(b) Describe classification society rules and regulation. Explain Lloyds register classification symbol. **07**

- Q.5** (a) Differentiate between: **07**  
1. Riveting and welding  
2. Gas welding & arc welding.  
(b) Explain different types of NDT method used in ship construction **07**

**OR**

- Q.5** (a) Mention the types of stresses occur in ship, explain any three of them. **07**  
(b) Explain shell plating with neat sketch. **07**

\*\*\*\*\*