

**INDIAN MARITIME UNIVERSITY**  
**(A Central University, Government of India)**

**B.Tech. (Marine Engineering)**  
**Semester – IV – December 2015 End Semester Examinations**

Ship Structure and Construction  
Subject Code: UG11T2401/ UG11T1401

Time: 3 Hours  
Date: 09.12.2015

Max Marks: 100  
Pass Marks: 50

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**Part-A**

**(3x10= 30 Marks)**

**Compulsory Questions**

1. a) Why LOA, Breadth extreme and Drafts are important dimensions?
- b) Explain Shear stress.
- c) Explain Longitudinal framing.
- d) What is a Tankside bracket?
- e) Explain features of a corrugated bulkhead.
- f) What are the types of STERN you know?
- g) What is a load line survey?
- h) State features of a LNG ship.
- i) Explain what is cable laying?
- j) State importance of a Safety Equipment Survey.

**Part-B**

**Answer any FIVE questions**

**(5 X 14 = 70 marks)**

2. Discuss various stresses experienced by a ship when sailing. (14 Marks)
3. What are the various destructive tests carried out in ship construction? (14 Marks)
4. Sketch and discuss a watertight transverse bulkhead. (14 Marks)
5. Discuss role of surveyors in construction of ships. (14 Marks)
6. Draw a neat sketch of a general cargo ship and label all parts. (14 Marks)
7. How the SOLAS regulations implemented in in ship construction? (14 Marks)
8. Discuss various ship statutory certificates you know and their validity (14 Marks)

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