

**INDIAN MARITIME UNIVERSITY**  
(A Central University Government of India)  
**END SEMESTER EXAMINATIONS-JUNE/JULY 2019**  
**B.SC NAUTICAL SCIENCE**  
**SEMESTER-III**  
**CARGO HANDLING & STOWAGE PAPER-III**  
**(UG21T2308)**

**Date: 11-07-2019**

**Maximum Marks: 70**

**Duration: 3 hrs.**

**Pass Marks: 35**

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**Note: - Answer any Seven Questions out of Nine Questions.**

- 1) Write short notes on following: (2x5=10 marks)
  - A) Responsible Person
  - B) Thorough Examination
  - C) MSDS Sheet
  - D) TML
  - E) DRI
  
- 2) Explain the following: (5+5=10 marks)
  - A) Rigging Plan
  - B) Chain Register
  
- 3) Enumerate various checks to be carried out on Ship's cargo gear before using it for cargo operations. (10 marks)
  
- 4) Describe the powers of Dock Safety Inspector. (10 marks)
  
- 5) Explain the contents of 'Grain Loading Booklet' as per International Code for the safe carriage of Grain in Bulk. (10 marks)
  
- 6) Write short notes on : (4+3+3=10 marks)
  - A) Stowage Factor
  - B) Broken Stowage
  - C) Angle of Repose

- 7) Explain the following: (5+5 = 10 marks)
- A) Document of Authorization.
  - B) Pre loading inspection for loading Grain.
- 8) A) With respect to Timber code enumerate 5 causes responsible for shifting of timber deck cargo during its carriage at sea. (5 marks)
- B) Explain various classes of cargoes as per IMSBC code with examples. (5 marks)
- 9) Enumerate Precautions for carrying Concentrates. (10 marks)

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