

INDIAN MARITIME UNIVERSITY
(A Central University, Govt. Of India)
B.Sc. (NAUTICAL SCIENCE)
End Semester Examinations June-July 2019
SEMESTER IV
Cargo Handling & Stowage – PAPER IV
(UG21T2408)

Date: 11-07-2019

Time: 3 Hrs

Max Marks: 70

Pass Marks: 35

**Note: - Answer any Seven Questions out of Nine Questions.
(7 x 10 Marks each = 70 marks)**

1. Explain the following:
 - a) Bill of Lading (5 marks)
 - b) Note of Protest (5 marks)
2.
 - a) Write various types of Containers. (5 marks)
 - b) Explain Container Code 'HJNU2430' (5 marks)
3. Explain the precautions regarding Refrigerated Cargo in respect of:
 - a) Preparation of Compartment prior loading (4 marks)
 - b) Reception of Reefer Cargo (4 marks)
 - c) Care During Transit (2 marks)
4. Draw and explain 'Inert Gas System' on Oil Tanker Ships. (10 marks)
5. Explain the following terms: (5+5=10 marks)
 - a) ODMCS
 - b) COW
6. Explain the use of following on Hatch Covers: (2x5=10 marks)
 - a) Compression Bar
 - b) Side Cleats
 - c) Drain Channels
 - d) Joint Wedge
 - e) Eccentric Wheels
7. Explain the composition of 'Ship-Shore Safety Checklist' as mentioned in ISGOTT. (10 marks)
8. Explain the difference between:
 - a) Pump & Eductor (5 marks)
 - b) Purging & Gas-Freeing (5 marks)
9. Explain the precautions whilst loading/discharging of heavy lifts. (10 marks)