

# INDIAN MARITIME UNIVERSITY

(A Central University, Govt. Of India)

## DIPLOMA IN NAUTICAL SCIENCE:

END SEMESTER EXAMINATION- JUNE-JULY 2019

### SEMESTER-II

CARGO HANDLING, STOWAGE AND SEAMANSHIP-II

(UD11T2203)

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**Date: 26.06.2019**

**Max Marks: 70**

**Time: 2Hrs**

**Pass Marks: 28**

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*Answer Q. No. 1 and any 3 other Questions from Section A;  
Answer any 1 Question from Section B;  
Answer any 2 Questions from Section C; All Questions carry equal marks;*

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### **PART-A**

Q1

- a. Draw and explain the standard ring main system of pipe line on an Oil- Tanker
- b List the various gas measuring instruments used on board tankers and gases they measure

Q2

- a Write short notes on
  - (i) Chain register
  - (ii) Cargo Securing Manual
- b List down the details which are given in a dangerous cargo manifest.

Q3

- a Write the definition of
  - (i) Cargo sweat
  - (ii) Load density
  - (iii) TML
- b Explain the terms by giving examples
  - (i) Hygroscopic cargo
  - (ii) High density cargo.

Q4

- a Explain the process of preparing a cargo hold to receive wheat.
- b What is the importance of documents such as Bill of lading and mates receipt.

Q5

- a Explain the ventilation requirements which are provided on a car carrier vessel.

b As a duty officer on deck during cargo watch what all items needs to be checked by you during your watch.

### **PART-B**

Q6

a Explain the following terms in connection with Anchor work

(i) Joining shackle (ii) bitter-end (iii) Bow stopper

b Explain the method of securing Anchor for sea passage.

Q7

a Explain the following terms in connection with Anchor work

(i) Fowl Hawse (ii) Long stay (iii) Yawing

b Explain the procedure to be followed for emergency anchoring.

### **PART-C**

Q8

a Explain procedures to enter a battery room for normal work

b You,are required to undertake radar repairs what safety precautions should be observed.

Q9

a With respect to pilot ladder list out all specifications for a ladder and also when rigging with combination method.

b Explain safety precautions to be taken whilst rigging a gangway?

Q10

a Explain the procedures to be followed for safe bunkering.

b what precautions and procedures to be taken by officers before proceeding to enter an Enclosed space?

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