

**INDIAN MARITIME UNIVERSITY**

(A Central University, Government of India)

End Semester Examination Dec 2019

**DIPLOMA IN NAUTICAL SCIENCE (DNS)**

**Semester : II**

**CARGO HANDLING STOWAGE & SEAMANSHIP II (UD11T4203)**

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**Date: 11-12-2019**

**Time: 2 Hrs**

**Max Marks: 70**

**Pass Marks: 35**

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*Q. No. 1 is compulsory and any 3 other Questions from PART A;*

*Answer any 3 Questions from PART B;*

*All Questions carry equal marks;*

*Draw sketches wherever required*

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**PART– A: CARGO HANDLING AND STOWAGE**

(Answer Q. No. 1 and any 3 other Questions from this Section)

Q1.State "True" or "False" (10 x 1 = 10 Marks)

- 1.Slop tanks are designated for collection of tank draining, tank washing and other oily mixture
2. Cocoa, coffee and tea are example of hygroscopic cargo.
- 3.IMDG dangerous goods are divided in 9 classes.
- 4.MSDS contains stowage factor of the cargo
- 5.Bill of lading is issued by shipper
6. Mate's receipt is the evidence of existence of contract of affreightment.
- 7.TML (Transportable Moisture limit) is the maximum moisture content of a concentrate safe for carriage
- 8.Trimming means levelling of the cargo
- 9.Grain capacity is less than bale capacity
- 10.Cargo manifest is a list of all cargo on the ship at any time.

Q2: Write short notes on the following (2\*5=10 marks)

- a) Ship shore Safety check list
- b) Tanker Direct Pipe line system

Q3: a) Describe marking on the containers (2\*5=10 marks)

- b) List container lashing fitments.

Q4: a) How to check weather tightness of the hatches? (2\*5=10 marks)

- b) Write short notes 1)Hygroscopic cargo 2)Heavy density cargo

Q5: a) Write down the hazards associated with carrying Oil cargoes (2\*5=10 marks)

- b) What are all the duties of OOW on a cargo watch of a General Cargo vessel in a port?

**PART – B: SEAMANSHIP THEORY/ SAFE WORKING PRACTICES**

*(Answer any 3 Question from this Section)*

- 6.(a) Describe 3 Standard hand signals for Crane operation
- (b) Describe safety precautions to be taken while Anchoring (2\*5=10 marks)
- 7.(a) Explain the following anchoring terms: i) Shortening-in ii) A cockbill position  
iii) Anchor Aweigh iv) Long Stay v) Short Stay
- (b) List safety precautions to be taken while repairing radar (2\*5 =10 marks)
8. (a) Sketch and explain the bitter end securing arrangements of anchor cable.
- (b) Give 5 examples where permit to work is required. (2\*5 =10 marks)
9. Describe the safety precautions to take before:
- (a). Bunkering operations
- (b). What precautions you will take for pilot ladder rigging? (2\*5 =10marks)

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