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INDIAN MARITIME UNIVERSITY
(A Central University, Govt. of India)
May/June 2018 End Semester Examinations
DNS (Diploma in Nautical Science)
Semester II

CARGO HANDLING, STOWAGE AND SEAMANSHIP II(UD11T3203)

Date: 06.06.2018

Max. Marks: 70

Time: 2 Hrs

Pass Marks: 35

Answer Q .No. 1 and any three other Questions from Section A:
Answer any three Questions from Section B:
All Questions carry equal marks:

Section A: CARGO HANDLING AND STOWAGE

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

1. Fill in the blanks (1 x 10 = 10 marks)

- (i) ESD stands for-----
- (ii) Source of Inert gas on board tanker is-----
- (iii) TEU's stand for-----
- (iv) Stowage plan of a Containership is described by -----
- (v) Loading ramps are fitted on-----

Answer "True" or "False"

- (vi) "Explosimeter" is used when the tank is in Inerted condition
- (vii) "Cell-guides" are fitted inside cargo hold
- (viii) Master to refer "IMSBC" code for Dry-bulk cargo.
- (ix) Tankers are fitted with "Hoppers" & "Top side tanks".
- (x) "EmS & MFAG" is mentioned in cargo securing manual.

2 (a) Describe hazards of Crude oil cargo. **(5 marks)**

(b) Draw a simplified Block Diagram of "Inert gas System" **(5 marks)**

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3. (a) Describe the following markings on a Container **(5 marks)**

" HLXU 200841 9" & "22G1"

(b) Explain the below mentioned Stowage location in terms of Bay-Row-Tier on a container ship. **(5 marks)**

"18 00 82"

4. (a) Describe the Hazards Associated with Dry-bulk cargoes **(5 marks)**

(b) Define the Following terms:

- (i) Stowage factor **(1x5 =5marks)**
- (ii) UN no. (of IMDG cargo)
- (iii) "MSDS"
- (iv) Mate's receipt
- (v) TML

5. (a) Draw & explain the " RingMain" types of Pipe line arrangement on a Tanker. **(5 marks)**

(b) Describe the Ventilation & fire-fighting arrangements of cargo space of a car carrier. **(5 marks)**

SECTION-B: SEAMANSHIP THEORY & SAFE WORKING PRACTICES

(Answer any 3 Questions from this Section)

6. (a) Explain various types of slings used for cargo work **(5 marks)**

(b) Describe safety precautions while Anchoring **(5 marks)**

7. (a) Explain the following Anchoring terminology:-

- Anchor A' cock bill
- Anchor aweigh
- Walk back the anchor
- Snub the cable
- Brought up four on deck

(b) Explain safety Precaution to observe while entering Battery room **(5 marks)**

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(a) Describe procedures for Securing Anchors for High seas.

(5 marks)

(b) Describe safety precautions while using Bosun's chair

(5 marks)

9. (a) Describe briefly the Importance of maintaining good health & hygiene on board a ship.

(5 marks)

(b) Describe safety procedure for Enclosed space entry. **(5 marks)**
