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26/06/2019

INDIAN MARITIME UNIVERSITY
 (A Central University Government of India)
END SEMESTER EXAMINATIONS-June/July 2019
Diploma in Nautical Science
Semester II
Cargo Handling Stowage and Seamanship II
(UD11T3203)

Date: 26-06-2019

Max. Marks: 70

Time: 2 hours

Pass Marks: 28

Note: Non Programmable Scientific Calculator is Permitted.

Part-A

CARGO HANDLING AND STOWAGE

(Question number 1 is compulsory. Attend any 3 questions from this Section)

1. Fill in the blanks and, (1 X 10=10 marks)

- i. UEL is an acronym for _____.
- ii. An eductor works on _____ principle.
- iii. Containers made as per ISO standards must be suitable for transport by _____ modes.
- iv. DOC for carriage of dangerous goods stands for _____.
- v. Coals, Sulphur, Phosphorous are liable to _____ combustion.

Answer "True" or "False"

- vi. As per the IMSBC Code "Group A" cargoes are cargoes which possess a chemical hazard.
- vii. If the tank atmosphere is below the LEL, the tank is outside the "Flammable Range"
- viii. A "Tankscope" can be used to check the atmosphere in a tank even when no Oxygen is present.
- ix. A Vessel need not have a Document of compliance certificate for IMDG cargo, to accept dangerous cargo.
- x. "Hygroscopic cargoes" are cargoes that give off or absorb moisture.

- 2. (a). Draw and label an eductor. **(5 marks)**
 (b). Write a short note on an "Explosimeter" **(5 marks)**
- 3. (a). What is a Bay-Row-Tier system on a container ship. **(5 marks)**
 (b). List the contents of a DOC for ships carrying dangerous cargo **(5 marks)**
- 4. (a) What are the hazards associated with Coal cargoes. **(5 marks)**

(b) As per the IMSBC Code what are the categories of bulk cargoes?
Give examples for each category. **(5 marks)**

5. (a) What are the duties of an officer on cargo watch? **(5 marks)**

(b) What is a type I, type II and type III chemical tanker? **(5 marks)**

Part-B: SEAMANSHIP THEORY/SAFE WORKING PRACTICES

(Answer any 3 other Questions from this section)

6. a) What are the signals for hoisting and lowering when using crane?
(5 marks)

b) What are the safety precautions to be observed when rigging the
pilot ladder? **(5 marks)**

7. a) With respect to Anchor work what is (i)joining shackle, (ii)Dragging
anchor. **(5 marks)**

b) List the types of "Permits to work" for any five shipboard operations
(5 marks)

8. a) Explain the method for securing anchor for sea, & covering a
Spurling pipe **(5 marks)**

b) What are the safety precautions to be taken when anchoring?
(5 marks)

9. a) List any five Safe bunkering practices? **(5 marks)**

b) What are the items contained in a SOPEP locker? **(5 marks)**
