

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examination Dec 2019
DIPLOMA IN NAUTICAL SCIENCE (DNS)
Semester : II

CARGO HANDLING AND STOWAGE & SEAMANSHIP (UD11T1203)

Date: 11-12-2019

Max Marks: 70

Time: 2 Hrs

Pass Marks: 28

Part-A: CARGO HANDLING AND STOWAGE

(Answer QNo. 1 and 3 other Questions from this section)

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

- i. LEL is an acronym for _____.
- ii. IMSBC Code is an acronym for _____.
- iii. MSDS sheet is an acronym for _____.
- iv. IBC Code is an acronym 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 between the LEL & UEL, the tank is outside the "Flammable Range"
 - viii. "Toxicity" is a hazard associated with Chemical cargoes.
 - ix. A Vessel must be issued 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). How many types of containers are in use? **(5 marks)**
(b). Write a short note on Fire precautions to be observed during cargo operations. **(5 marks)**
3. (a). Write a short note on Bay-Row-Tier system on a container ship. **(5 marks)**
(b). List the contents of a Cargo Securing Manual **(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) With respect to anchor work what is a "Shackle of Cable", "Link", "Swivel", "Kenter Joining shackle", and the term "A cockbill"? **(5 marks)**
- b) What are the safety precautions to be observed when rigging the Gangway? **(5 marks)**
7. a) What are the safety precautions to be observed while entering battery room? **(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)**
