

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS – DECEMBER 2019

B.Sc. (Nautical Science)

Semester: IV

UG21T3403- CARGO HANDLING AND STOWAGE

Date: 04-01-2020

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

Note-Question number one is compulsory.

Answer any six questions from remaining eight questions.

Non Programable Scientific Calculator is permitted.

Q1. Write short notes on the following. (5x2=10marks)

- a)Code of safe practice for ships carrying Timber deck Cargoes.
- b)TML
- c)MSDS Sheets
- d)DOA with reference to grain cargo.
- e)Note of Protest

Q2) (10 marks)

What is the need for inspection of holds and What are the items to be inspected in a cargo hold?

Q3) (2x5=10 marks)

- a)What are the various types of Deck Cargo?
- b)What is the effect on stability due to absorption of water on Timber Deck Cargo?

Q4) (5x2=10marks)

- a)What are the duties and powers of Dock Safety Inspector?
- b)Describe briefly, the contents of chain Register.

Q5) (5x2=10marks)

- a)What are the documents required prior Loading Bulk Cargoes and concentrates?
- b)Describe briefly the purpose and objective of BLU CODE?

Q6) (5x2=10marks)

- a)What is the use of shifting boards and bundling arrangement in grain cargo?
- b)Describe briefly the International code for Safe carriage of Grain in Bulk?

Q7)

(5x2=10marks)

a)What is Bill of lading ?

b)Explain briefly, the classification of IMDG Cargoes?

Q8)

(10 Marks)

A Ship has the following characteristics

LBP=165 Meters,LCF=0.45 Meters Forward Of Amidship

TPC=30.5 Tonnes/cm,

Displacement(Loaded departure)=22,000 tonnes.

Displacement (Lightship)=9500 tonnes.

Stores,tankage etc(departure)=1200 tonnes.

The following draft marks were read at departure.

FP=8.160 meters

Amidships=8.730 meters

AP= 9.280 meters

Find the following

- i) The mass of loaded cargo.
- ii) Mean of the means draft
- iii) Draft at LCF.

Q9)

(5x2=10marks)

a)Describe briefly the markings on Ships lifting appliances and cargo gear?

b)What are the hazards associated with the shipment of Coal Cargo?
