

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2023
Programme Name: B Sc (NS)
Semester: IV
Subject Code: UG21T5403
Subject Name: Cargo Handling and Stowage Paper II

Date: 29.05.2023

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.

Section A

Choose the most correct answer as applicable. (1x10=10marks)

1. Select from the below options given, which is NOT a hazard associated with bulk cargoes.

- a) Structural Damage
- b) Shift of Cargo
- c) Overflow
- d) Liquefaction

2. High Density cargoes, have a Stowage factor of lesser than _____m³/t. (Fill in the blank)

- a)0.41
- b) 0.56
- c)0.50
- d)0.68

3. IMDG code is a part of SOLAS & MARPOL. Please select the correct option.

a)Marpol Annex III & SOLAS chapter 7.

b)SOLAS Chapter 3 & Marpol Annex VI

c)MARPOL Annex V & SOLAS chapter 7

d)None of the above.

4. When we experience bad weather during the voyage, than on arrival the master issues _____. Fill in the blank with correct option.

a)Letter of Protest

b)Letter of Indemnity

c)Note of Protest

d)None of the above.

5. Which one is a cargo document

a. Bill of lading

b Notary Paper

c. Bill

d. Official log book

6.S.W.L. means

a. Safe weight limit

b. Safe working load

c. Safe work limit

d. Safe limit

7. Which one is class 1 IMDG cargo

a. toxic

b. Corrosive

c. Explosive

d. flammable solid

8. Which one is a grain securing method

a. rope passing

b. wall making

c. strapping and bundling

d. sling passing

9. To calculate the First Trim correction, which of the component is mandatory. Select the correct option.

a) Distance of COF from mid ship.

b) True Trim

c)Length between perpendiculars

d)All of the above.

10.Unsecured partly filled gain can

- a. shift transversely
- b. can never shift
- c. will shift vertically
- d.will shift upward

Section B

Five Questions of 02 Marks each(2x5=10marks)

- 11. Define moisture content in bulk cargo?
- 12.State four lashing material used in timber deck cargo?
- 13. What is purpose of chain register?
- 14.What is Bill of Lading?
- 15. State the methods to reduce grain heeling moments.

Section C

Seven Questions of 10 Marks each. Answer any five .(5x10=10Marks)

(16)

- (a) State the contents of a MSDS Sheet. (5 Marks)
- (b) State with example Note of Protest & Letter of Protest. (5 marks)

(17)

- (a) State the hazards and precautions associated with "Coal" cargo?
(5 Marks)
- (b) State the hazards and precautions associated with "Sulphur" cargo?
(5 Marks)

(18)

(a) State the classification of cargo as per IMDG code with a suitable example for each Class. (5 Marks)

(b) State the condition for Loading grain in the absence of DOA. (5 Marks)

(19)

(a) State different hazards associated with Bulk cargoes. (5 Marks)

(b) State the precautions to be taken with bulk cargoes. (5 Marks)

(20) Describe principles to be observed in loading deck cargo with respect to safety, stability aspect? (10 Marks)

(21) Write Short notes on the following: (2.5x4=10 Marks)

- Mate Receipt
- Bill of lading
- Note of protest
- Third party damage report

(22) Illustrate the systematic procedure of cargo hold preparation for grain loading standard? (10 Marks)

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