

Indian Maritime University
(A Central University, Govt of India)

Supplementary Examinations – September/October 2024

Programme Name: BSc. NS

Semester: IV

Subject Code: UG21T5403

Subject Name: Cargo Handling and Stowage Paper -II

Date: 27.09.2024

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.
- (ii) Options, if any, are specified in respective section.

Section A

Answer all the questions (10x1mark=10marks) MCQs/Fill in the Blanks / Choose the correct answer as applicable.

1. The cargo holds must be inspected after completion of loading for:

- a) Routine inspection
- b) any structural damages caused by stevedores
- c) Inspection can be postponed since deck crew are overworked in the port
- d) checking corrosion

2. As per Annex V of Marpol, dunnage can be disposed off at sea

- a) True
- b) False

3. Following is not an example of deck cargo:

- a) Timber
- b) Windmill parts
- c) Vehicles
- d) Wheat in bags

4. All the cargo gear on board must be inspected by a competent person every:

- a) 6 months
- b) 1 Year
- c) 5 Years
- d) 2 Years

5. What are the high-density cargo?

- A. Cargoes that have a SF more than 0.56 m³/tonne
- B. Cargoes that have a SF less than 0.56 m³/tonne
- C. Cargoes that have a SF between 1m³ to 2m³/tonne
- D. All of the above

6. Which of these is a hazard in handling bulk cargoes:

- a) Reduced ship stability
- b) Asphyxia
- c) Toxicity
- d) Cargo contamination

7. Define Moisture Content.

- a) The volume of the water contained in an object or material, usually expressed as a percentage of weight.
- b) The concentration of the water contained in an object or material, usually expressed as a percentage of weight
- c) The weight of the water contained in an object or material, usually expressed as a percentage of weight.
- d) The density of the water contained in an object or material, usually expressed as a percentage of weight.

8. _____ serves as evidence that the ship is capable of complying with the requirements of the Grain Code.

- a) Document of compliance
- b) Document of authorization
- c) Certificate of authorization
- d) Certificate of compliance

9. In a time charter, who pays for the cost of bunkers

- a) Ship owner
- b) Charterer
- c) Shipper

d) Cargo receiver

10. Flammable liquids belong to which class in the IMDG code

a) Class 4

b) Class 3

c) Class 2

d) Class 1

Section B - All Questions compulsory (5x2marks =10marks)

11. Write a short notes on Dunnage.

12. Name various test for the water tightness of Hatch Cover?

13. How will you maintain cargo gear in good order?

14. Write a short note on Loadicator.

15. List the hazards associated with the carriage of timber on deck?

Section C

Answer any Five out of Seven Questions (5x10marks=50marks)

16. Discuss the advantages and disadvantages of carrying deck cargoes.
(5 marks)

State all the actions to be taken when encountering heavy weather in order to prevent damage to deck cargoes.
(5 marks)

17. What is a chain register. What are the various parts of the same. (5 marks)
What is Annealing? What are the advantages of the same? (5 marks)

18. What is IMSBC? What are the various groups of cargo as per the IMSBC?
(5 marks)

What are the main hazards associated with the bulk loading of concentrates?
(5 marks)

19. Your vessel has completed discharging coal at Vizag and next you have received instructions to load a cargo of Wheat. Write in detail as to how you will prepare your holds for this loading.
(10 marks)

20. What is Timber code. Mention few chapters of the same (5 marks)
What are the various points to be remembered when securing Timber cargo on Deck? (5 Marks)

21. Explain and give a comparison between Mate's receipt and Bill of lading. (10 marks)

22. (a) State the classification of cargo as per IMDG code along with examples. (5 Marks)

(b) State the different types of segregation required as per IMDG code. (5 Marks)

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