

Indian Maritime University
(A Central University, Govt of India)
Sep/Oct'25 SE
Programme Name: Diploma in Nautical Science
Semester: I
Subject Code: UD11T6105
Subject Name: Cargo Work - I

Date: 17.09.2025

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

MCQs– Choose the correct answer as applicable.

(1 x 10 = 10 Marks)

1. Separation between parcels of cargo is carried out for _____
 - a) Contaminated cargoes
 - b) Same consignees
 - c) Hazardous cargoes
 - d) All of the above
2. Entries of Cargo loading/unloading equipment's is made in
 - a) Deck logbook
 - b) Engine Logbook
 - c) Chain Register
 - d) Garbage Log
3. Hazards associated with coal cargoes are
 1. emission of methane
 - b) Emission of Ethane
 - c) Emission of H₂S
 - d) Emission of Propane
4. Offshore vessels primarily serves the _____
 - a) Oil and Gas sector
 - b) Carrying General cargo
 - c) Carry containers
 - d) carrying Cars
5. Software which is used to calculate stability of the ship is called
 - a) Loading app
 - b) Loadicator
 - c) Indicator
 - d) Ballast app

Filling the Blanks

6. Cargo loaded on Bulk cargo vessels is by using conveyor belt and _____
7. Steel coils, pipelines, Containers are always loaded in _____ direction.
8. IMGS stands for _____
9. Classification of IMDG cargo falls into _____ categories.
10. Reputation of the cruise and passenger relies totally on its _____ record

Section B

Short Questions

(2 x 5 = 10 Marks)

11. write short note on LPG carrier.
12. List various slings used for loading/unloading of cargo
13. What are the dangers associated with using insecticide in cargo holds
14. Describe safety approval plate on Container (CSC plate)
15. Explain Load density

Section C

All five questions to be answered.

16. **(5 x 2 = 10 Marks)**
 - a) Describe the reasons for using dunnage
 - b) State the advantages and disadvantages between crane and derrick.
17. **(10 Marks)**
 - a) A Hold 8m x 6m x 4m is to be filled with Steel Pipes (S.F. 1.06 m³/t) and Paint Drums (S.F. 1.85 m³/t). If the load density of the Tank top is 3.20 t/m², up to what height should the Steel be loaded so that the hold is filled without exceeding the load density? How many tonnes of Steel pipes and Paint drums can be loaded?
18. **(5 x 2 = 10 Marks)**
 - a) Describe the hazards associated with coal cargoes
 - b) Explain that separation between parcels of cargo for different consignees or different ports of discharge is required
19. **(5 x 2 = 10 Marks)**
 - a) Explain MFAG & EMS as per IMDG code.
 - b) Explain with suitable sketch how the ship sweat is formed.
20. **(5 x 2 = 10 Marks)**
 - a) Explain the uses and purpose of OSVs.
 - b) List the equipment's used for lashing containers on deck.