

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – December 2023
Programme Name: Diploma in Nautical Science
Semester: II

Subject Code: UD11T5203
Subject Name: CARGO HANDLING, STOWAGE AND SEAMANSHIP

Date: 11.12.2023

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

True / False

(01 x 10 = 10 marks)

1. Multipurpose ships carries Livestock as one of the cargos
2. Original B/L is not to be kept with Master.
3. when you suddenly apply the brakes on running windlass then it is called Veer the cable
4. A person using a bosun's chair should not be lowered or hoisted using a winch or such device.
5. All the jobs on board require permit to work system.

Choose the correct option.

6. 80% of the containers are constructed of
 - a. Aluminium b. steel c. stainless steel d. cast Iron.
7. When starting a positive displacement pump, the discharge valve must be _____ (Single choice)
 - a) fully closed b) fully open c) cracked open d) half open
8. The word Ramps are associated with:
 - a) Tankers b) Bulk carriers
 - c) Ro-Ro ships d) None of the above
9. When a work is carried out on Radar Antenna then you need to do following
 - a. Wear safety belt, b. Permit to work, c. informs Engine Room, d. All of these
10. Tiers system inside the hold on a container ship starts with,
 - a. 01,02.... b. 02,04.... c. 80, 82..... d. 82,84.....

Section B

Short Questions

(02 x 5 = 10 Marks)

11. Define Flow moisture point
12. With sketch Explain Long stay.
13. How many types of Ramps are there on Ro-Ro ships.
14. What is the stack weight of the container
15. Write short note on Slop Tank.

Section C

Answer any 05 questions out of 07.

16. (2 x 5 = 10 Marks)
 - a. Explain with Diagram – Ring main Pipeline system
 - b. Explain types of cargoes carried on Bulk carrier as per IMSBC code
17. (2 x 5 = 10 Marks)
 - a. What is a Cargo Securing Manual and its contents?
 - b. Describe the ventilation system on Ro-Pax vessel
18. (2 x 5 = 10 Marks)
 - a. With help of sketch explain securing of anchor at sea.
 - b. Sketch and explain working of an Explosimeter?
19. Write safety precautions to be taken for following activities, (2 x 5 = 10 Marks)
 - a. Working on RADAR
 - b. While Bunkering
20. List the points of Ship-Shore safety checklist used on **Tanker** as per ISGOTT (10 Marks)
21. (2 x 5 = 10 Marks)
 - a. Briefly explain the advantages and disadvantages of containerization
 - b. Explain Portainers & Straddles used to move the containers in port.
22. Explain in details hazards associated with carriage of Coal Cargo and precautions to be taken (10 Marks)