

**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)**