

**Indian Maritime University**  
**(A Central University, Govt of India)**  
**End Semester Examinations – December 2022**  
**Programme Name: DNS**  
**Semester: II**  
**Subject Code: UD11T5203**  
**Subject Name: Cargo Handling, Stowage & Seamanship II**

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Date: 14.12.2022

Max Marks: 70

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Duration: 02 Hours

Pass Marks: 35

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General Instructions

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

**Section A**

**Objective Questions: (10 x 01 Mark each)**

1. On a tanker ESD stands for \_\_\_\_\_
2. **True or False:** Severe injuries and Serious illnesses cannot be dealt with on board and hence the importance to Health, hygiene and safe working practices
3. **True or False:** A person using a bosun's chair should not be lowered or hoisted using a winch or such device.
4. **True or False:** The luffing wire of a crane is used for hoisting or lowering of loads/cargo
5. A combination ladder is used for pilot operations for ships when the freeboard is more than \_\_\_\_\_.
6. 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
7. A 'venturi' tube would normally be found in \_\_\_\_\_ **(Single choice)**
  - a) a globe valve.

- b) a centrifugal pump.
- c) an eductor.
- d) a reciprocating pump.

8. Dangerous goods as per IMDG Code are classified under \_\_\_\_\_. **(Single choice)**

- a) 10 classes.
- b) 9 classes.
- c) 8 classes.
- d) 7 classes.

9. What is meant by the term "Anchor is ready for letting go"

10. Ventilate hold if dew point of the air:

- a) Inside the hold is lower than dew point of the air outside the hold.
- b) Inside the hold is higher than dew point of the air outside the hold.
- c) Inside and outside the hold are the same.
- d) All of above.

### **Section B**

#### **Short Answer Questions (5 x 2 Marks each)**

- 11. What is scope wrt anchor work and explain its significance
- 12. What are the various types of cargoes carried by a Multi Purpose Vessel.
- 13. Name atleast 4 portable container lashing equipment
- 14. Name 4 critical jobs on-board where a "permit to work" needs to be issued
- 15. State any 4 benefits of COW on a tanker

### **Section C**

#### **Answer any five out of seven questions. (10 Marks Each)**

- 16. a) What is a sling? What are the different types and classifications of slings used on-board. (5 marks)  
b) Draw a simplified/block diagram of "Inert gas System" (5 marks)
- 17. Give a brief description of:  
a) Procedure for working aloft when carrying out repairs on the Radar Scanner. (5 marks)  
b) Centrifugal pump and its working (5 marks)
- 18. a) Describe in short the various methods of testing cargo hold hatch cover weathertight integrity. (5 marks)

b) What are the safety precautions while using Bosun's chair? (5 marks)

19. a) What are the duties of an OOW on a dry cargo ship during cargo watch in port. (5 marks)

b) What is an enclosed space and briefly explain the hazards within it. (5 marks)

20. (a) Describe hazards of Crude oil cargo. (5 marks)

(b) How will you prepare a cargo hold for loading grain cargo (5 marks)

21. Write short notes on the following:

a) Contents of the volumes and supplements of the IMDG Code (5 marks)

b) Direct line piping system in a tanker with its advantages and disadvantages (5 marks)

22. a) Explain briefly the hazards associated with carriage of coal. (5 marks)

b) Explain the bay plan in a container ship. (5 marks)

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Tutorial

