

**Indian Maritime University**  
**(A Central University, Govt of India)**  
**End Semester Examinations – June 2023**

**Programme Name: B Sc (NS)**

**Semester: II**

**Subject Code: UG21T5205**

**Subject Name: SHIP OPERATION TECHNOLOGY**

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Date: 02.06.2023

Max Marks: 70

Duration: 03 Hrs

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

Fill in the Blanks of 01 Mark each – Choose the correct answer as applicable.

1. Courtesy flag is flown at
  - a. Main mast extreme starboard
  - b. Main mast extreme port side
  - c. Fore mast only
  - d. Anywhere it is best seen
2. What is an enclosed space?
  - a. A space which is not designed for continuous worker occupancy.
  - b. It has either or both of the following characteristics: limited openings for entry and exit.
  - c. A space having inadequate ventilation.
  - d. All of the above
3. While manually lifting a weight of 30 kgs,
  - a. Keep spine straight
  - b. Keep hands straight
  - c. Call for help to share load and follow actions in "a" and "b"
  - d. Carry it on head
4. Portable ladders must be at an angle of
  - a. 75 degrees for ideal stability.
  - b. 45 degrees
  - c. 60 degrees
  - d. 50 degrees

5. What type of stopper is used for wire mooring ropes on ships?
  - a. Rope stoppers
  - b. Bow stopper
  - c. Chain stoppers
  - d. None of the above
  
6. Person working on a ship is responsible for
  - a. reporting deficiencies and conditions causing concern
  - b. Own safety and that of others
  - c. contributing views on how things could be made safer
  - d. All of above
  
7. Toolbox talk/meeting:
  - a. is done before starting of the job
  - b. is key tool to maintain safety at work place
  - c. Gives clear understanding and awareness of hazards and associated risks
  - d. All of above
  
8. Incident investigation includes
  - a. all accidents and near misses only
  - b. all accidents, unsafe acts and unsafe conditions only
  - c. all accidents and non-conformities only
  - d. all accidents, near misses, unsafe acts, unsafe conditions and non-conformities
  
9. What is not allowed in the battery room of a ship?
  - a. Batteries
  - b. Naked light and smoking
  - c. PPE
  - d. None of the above
  
10. In case of a man over board, which flag would you hoist?
  - a. Oscar
  - b. Alpha
  - c. Kilo
  - d. Golf.

**Part B**

**Five Questions of 02 Marks each**

11. With respect to flags, what is meant by "at the dip" and "close up"?
12. State the purpose of the COSWP?
13. List out any four hand tools
14. With respect to work permits, who is a Responsible person
15. Define hazard?

**Section C**

**Answer any Five out of a total of seven questions, each question of 10 marks**

16. State at least 10 chapters of the Code of Safe Working Practices for Merchant Seafarers. (10 marks)
17. Write the meaning of following flags: (2 x 5 = 10 Marks)
- a. F
  - b. A
  - c. Y
  - d. B
  - e. H
18. State the role of Safety Committee onboard ship, and the responsibilities of the Safety Officer. (10 marks)
19. Explain, care and maintenance of wire ropes? (10 marks)
20. Describe the complete procedure addressing safety, health and environment concerns while carrying out painting on board? (10 marks)
21. List out the precautions while using power operated tools and equipment? (10 marks)
- 22
- (a) List out any 5 Personal Protective Equipment. (5 marks)
  - (b) Write a short note on the importance for seafarers to maintain Health and Hygiene on board (5 marks)

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