

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2025

Programme Name: DNS

Semester: II

Subject Code: UD11T6202

Subject Name: Contingency Preparedness

Date: 02.06.2025

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

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

Section A

(Answer all questions. Ten MCQs of 01 Mark each – Choose the correct answer as applicable)

1. One of the options mentioned is not a hazard
A) Physical B) Human factor
C) Mathematical D) Chemical

2. Which ship compartment is most prone to high temperatures and noise hazards?
A) Pump room on tankers B) Engine Room
C) Crew Accommodation D) Ship's Bridge

3. Which hazard category includes risks like lifting heavy objects incorrectly?
A) Chemical Hazard B) Ergonomic Hazard
C) Biological Hazard D) Fire Hazard

4. Risk assessment is a care full examination of -----
A) Harm
B) Hazard
C) Slip, Trip, Fall
D) Risk management

5. Who is responsible for ensuring health and safety at work?
A) Only the employer B) Only the employees
C) Both employer and employees D) Only the Port State Control

6. What does a Toolbox Meeting focus on?
A) Teaching employees how to use hand tools
B) Reviewing and discussing workplace hazards and safety measures
C) Replacing formal safety training
D) Conducting fire drills only

7. What should be done if the initial risk level is not tolerable?
- Never ever undertake such a job
 - Ignore the risks and continue working
 - Remove all safety training
 - Implement control measures to mitigate risk
8. In the event of a collision, what should be done first?
- Continue sailing. Our ship is big & no damage would have really happened.
 - Sound the general alarm and assess damage.
 - Immediately deploy rocket parachute flare to inform other vessels.
 - Increase speed to move away from the other vessel
9. What should be done if mooring lines part at the berth?
- Ignore and continue operations. Such things are normal at berth.
 - Secure the vessel using additional mooring lines and tugs if necessary
 - Inform the deck hand and pick up the gangway.
 - Release all remaining mooring lines & leave berth.
10. Out of the 4 options which is not a towing gear
- Fairlead
 - Turn buckle
 - Pickup gear
 - Chafing gear

Section B

Answer all the questions (Five Questions of 02 Marks each)

- Give one example each of hazards which can be removed & hazards which cannot be removed.
- What are the dangers associated with enclosed spaces?
- State the purpose of emergency drill.
- What is the importance of clear and concise communication?
- Define Risk.

Section C

(Seven Questions of 10 Marks each of which any 05 questions to be answered)

16. With respect to hazard identification, explain the following:
- What should be assessed **(3 marks)**
 - Who has to carry out the assessment **(3 marks)**
 - Process of Identifying Hazards. **(4 marks)**
17. a. List the precautions required to be observed prior entering battery room. **(5 Marks)**
- b. Explain the Principles of Risk Assessment **(5 Marks)**
18. a. Describe procedures and precautions during Helicopter Operations. **(5 Marks)**

b. Describe the procedure for abandoning ship. **(5 Marks)**

19. a. Identify the hazards which exist in Galley of a ship. **(5 Marks)**

b. Describe Precautions for the protection and safety of passengers in emergency situations. **(5 Marks)**

20. a. Explain contents of Fire control plans and importance of fire drills. **(5 Marks)**

b. Describe the execution of Williamson turn used for rescuing Man Overboard. **(5 Marks)**

21. Describe the actions to be taken on receipt of a distress message. **(10 marks)**

22. With suitable diagrams, explain the following two search patterns as per IAMSAR Volume III.

i) Expanding square search

(5 marks)

ii) Sector search

(5 marks)



