

**Indian Maritime University**

**(A Central University, Govt of India)**

**End Semester Examinations – December 2024**

**Programme Name: DNS**

**Semester: Second**

**Subject Code: UD11T5206**

**Subject Name: EMERGENCIES, MARITIME COMMUNICATION AND  
COMMERCIAL SHIPPING KNOWLEDGE**

---

Date: 24.12.2024

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 the respective section.

**Section A**

Ten MCQs of 01 Mark each

(10 marks)

1. When operating the air supply system in a covered lifeboat the
  - A. fuel supply valve should be closed
  - B. hatches, doors, and oar ports should be closed
  - C. air cylinder shut-off valve should be closed
  - D. engine should be shut off
2. The sprinkler system of an enclosed lifeboat is used to
  - A. cool the craft in a fire
  - B. cool the engine
  - C. spray oil on the sea to calm it
  - D. spray personnel during a fire
3. The danger of a charged hose left unattended on deck with the nozzle open is
  - A. the hose could burst
  - B. the nozzle end will whip about causing damage or injury
  - C. water damage to vessel's cargo or structure
  - D. personnel might trip over the hose
4. The rated operating time of a self-contained breathing device may be reduced in actual use because of
  - A. pressure differences in pressure differences in the atmosphere
  - B. the length of the hose attached to the face piece
  - C. the physical exertion of the person wearing the device
  - D. spaces containing poisonous vapours
5. When the alarm bell sounds on a positive-pressure, self-contained breathing apparatus, how long will reserve air supply last?
  - A. About 4-5 minutes
  - B. About 12-15 minutes



- C. About 8-10 minutes
  - D. About 18-20 minutes
6. Which shipboard equipment will detect a signal from a SART?
- A. S-Band Radar
  - B. DSC receiver
  - C. X-Band Radar
  - D. The auto-alarm
7. What is the basic concept of GMDSS?
- A. Search and rescue authorities ashore can be alerted to a distress situation.
  - B. Shipping in the immediate vicinity of a ship in distress will be rapidly alerted.
  - C. Shore side authorities and vessels can assist in a coordinated SAR operation with minimum delay.
  - D. All of the Options
8. Stevedores are employed by
- A. Custom's authorities
  - B. Ship's owner
  - C. Port authorities
  - D. Flag state authorities
9. Meaning of displayed flag "A" is
- A. I have a diver below
  - B. I need immediate assistance
  - C. I need a Tug
  - D. I am manoeuvring with difficulty
10. The "Substitute to key personnel" as required by SOLAS must be mentioned in the:
- A. Crew List.
  - B. Gangway Register.
  - C. Muster List.
  - D. Appointment letter

### **Section B**

#### **Five Questions of 02 Marks each (Marks 5x2)**

- 11. What are statutory requirements for Abandon ship drills?
- 12. What is CABA and where is it used?
- 13. What is the "International code of signals"?
- 14. Explain the relationship between a Harbour, Ports, Terminals and berths
- 15. Explain the role of a ship agent.

### **Section C**

#### **Answer any 5 questions out of 7 questions. (Marks 10 each)**

16. A) Explain the use of a Drill planner

**( 5 Marks )**

B) List essential tasks to be carried out during an emergency drill **( 5 Marks )**

17. A) Explain monthly maintenance to be carried out on FFA equipment **( 5 Marks )**

B) What is a Flag State Inspection (FSI)?

**( 5 Marks )**

18. Describe the launching procedure of free fall Life-boats **( 10 Marks )**

19. A) Write single letter signals (Meaning) for the following flags **( 5 Marks )**

1. A
2. K
3. M
4. V
5. Z

B) What is the format of a Distress message?

**( 5 Marks )**

20.A) Write a note on Harbour

**( 5 Marks )**

B) Expand the following abbreviations

**( 5 marks )**

1. IMO
2. ILO
3. WHO
4. ICS
5. IRS

21. A) Draw the following flags

**( 5 Marks )**

1. B
2. D
3. H
4. P
5. Q

B) Locate the following on a ship and list flags flown from them **( 5 Marks )**

1. Jack staff
2. Foremast
3. Mainmast
4. Ensign staff

22. A) Explain the relationship between Ship-owner and agents **( 5 Marks )**

B) Explain the relationship between the Shipper and the Broker **( 5 Marks )**

