

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2024
Programme Name: B Sc (Nautical Sciences)
Semester: VI
Subject Code: UG21T5601
Subject Name: VOYAGE PLANNING AND ECDIS

Date: 27.05.2024

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.

Section A

01 Mark each – Choose the correct answer as applicable.

1. Ascertaining the Charts and Publications needed for the Voyage is part of
 - a. Ordering
 - b. Appraisal
 - c. Monitoring
 - d. None of the above
2. The information for corrections to be carried out for a navigational chart can be found in
 - a) Company Manuals
 - b) Admiralty Chart Catalogue
 - c) Weekly Notices to Mariners
 - d) Ocean Passages of the World
3. INDSAR is applicable for the following region
 - a) Worldwide for all ships
 - b) All Ships in the Bay of Bengal and Arabian Sea
 - c) In the Indian EEZ
 - d) Indian Search and Rescue Region
4. In a Ship Reporting System, Sailing Plan is submitted
 - a. During Passage Planning
 - b. On Departure from a port in the system
 - c. Before Entry into the system
 - d. Both b and c



5. Whom will you inform in case of encountering Restricted Visibility
 - a. Owner
 - b. Master
 - c. Bosun
 - d. Agent

6. Information on Pilot Services and VTS Reporting can be obtained from
 - a. Ocean Passages of the World
 - b. Guide to Port Entry
 - c. Admiralty List of Radio Signals
 - d. Admiralty Sailing Directions

7. Fixing Positions as indicated in the Voyage Plan belongs to _____ stage of Voyage Planning.
 - a. Appraisal
 - b. Monitoring
 - c. Execution
 - d. None of the above

8. What is the full form of INDSAR
 - a. Indian Ship and Raft System
 - b. International Distribution of Search and Rescue
 - c. Indian Search and Rescue Computerised Ship Reporting System
 - d. Indian Coast Guard Search and Rescue

9. MF Voice frequency used for Distress, Urgency, Safety and Routine Calling is
 - a. 8414.5 KHz
 - b. 2187.5 KHz
 - c. 2182 KHz
 - d. 4207.5 KHz

10. The Primary Function of the ECDIS is
 - a. Replace Paper Charts
 - b. Reduce Workload on the Bridge
 - c. Safety of Navigation
 - d. Accurate information provider

Section B

Five Questions of 02 Marks each

11. Define ECDIS.
12. Define situational awareness.
13. What do you understand by the term "Least Time Track" in Weather Routing?

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14. Define Sea Area A3.

15. Which all types of reports are required in INDSAR?

Section C

Five Questions of 10 Marks each.

16. (a) Analyse the factors influencing the selection of ocean routes. (5 marks)
(b) List the general principles in ship reporting systems. (Any five). (5 Marks)

17. Compare and contrast vector charts and raster charts in terms of their advantages and limitations. (10 Marks)

18. Discuss the limitations of ECDIS. (10 Marks)

19. (a) List any 5 objectives of Bridge Resource Management (5 Marks)

(b) Identify and discuss key information sources provided by Guide to Port Entry for navigational planning - any 5. (5 marks)

20. Describe in detail the planning stage of a Passage Plan, emphasizing its critical aspects and considerations. (10 Marks)