
Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2026
Programme Name: B Sc (NS)
Semester: VI
Subject Code: UG21T5601
Subject Name: Voyage Planning & ECDIS

Date: 01.06.2026

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.
- (ii) Answer all the questions.

Section A

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

1. Which publication provides details of radio navigational warnings?

- a) ALRS
- b) Sailing Directions
- c) Tide Tables
- d) Distance Tables

2. Which GMDSS sea area is covered by at least one VHF coast station with DSC?

- a) A1
- b) A2
- c) A3
- d) A4

3. _____ is the default safety contour in ECDIS

- a) 10 meters
 - b) 24 meters
 - c) 30 meters
 - d) 36 meters
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4. Which of the following is NOT a stage of passage planning?

- a) Appraisal
- b) Execution
- c) Monitoring
- d) Evaluation

5. INDSAR is coordinated by which authority?

- a) DG Shipping
- b) Indian Navy
- c) Indian Coast Guard
- d) Port Trust

6. What does SCAMIN in ECDIS refer to?

- a) Safety camera
- b) Scale minimum display
- c) Satellite communication
- d) System calibration

7. Which chart is used for planning large ocean passages?

- a) Large scale chart
- b) Small scale chart
- c) Harbour chart
- d) Port plan

8. _____ is a co-ordinated global service for the promulgation of navigational warnings.

- a) WWNS
- b) WWNAS
- c) WWNSS
- d) WWNWS

9. _____ publication provide information on the local waterways, coastal, inshore area near to the port.

- a) Admiralty List of Lights
 - b) Ocean Passages for the world
 - c) Mariners Hand Book
 - d) Admiralty sailing directions
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10. Which system is used for transmitting MSI via satellite in GMDSS?

- a) Navtex
- b) AIS
- c) INMARSAT-C
- d) Radar

Section B

Five Questions of 02 Marks each

- 11. What are the benefits of BRM?
- 12. What is meant by situational awareness in navigation?
- 13. Define Sea Area A2.
- 14. In IMO Base Display on ECDIS, list the informations that are permanently shown?
- 15. What are the advantages of weather routeing?

Section C

Five Questions of 10 Marks each. All questions are compulsory.

- 16. (a) Analyse the factors influencing the selection of ocean routes. (5 marks)
(b) List the general principles of ship reporting system (Any five). (5 Marks)
 - 17. Compare and contrast vector charts and raster charts in terms of their advantages and limitations. (10 Marks)
 - 18. Explain the key features of an ECDIS, its advantages and limitations? (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 (Any five). (5 marks)
 - 20. a) Describe in detail the planning stage of a Passage Plan, emphasizing its critical aspects and considerations. (5 Marks)
b) What are the factors to be considered in weather routeing of a ship? (5 Marks)
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