

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

**Sep/Oct'25 SE**

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

**Semester: VI**

**Subject Code: UG21T5601**

**Subject Name: Voyage Planning & ECDIS**

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Date: 01.09.2025

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**

Ten MCQs of 01 Mark each – Choose the correct answer as applicable.

1. Which method is not employed for receiving maritime safety information?  
a) AIS b) Navtex c) EGC Receiver d) HD NBDP
2. The facility for bunkering at a port is listed in which document?  
a) Distance Tables b) Mariners Handbook c) ALRS d) Guide to Port Entry
3. Which equipment is essential for receiving maritime safety information in Sea-Area A3?  
a) AIS b) Navtex c) VHF d) INMARSAT
4. What type of signal would be transmitted in a man-overboard situation?  
a) Safety b) Distress c) Urgency d) Routine
5. Which contour line is utilised as a boundary between safe and unsafe waters?  
a) Deep contour b) Shallow Contour c) Safety Contour d) Depth Contour
6. What does the Zone of Confidence "U" on an Electronic Navigation Chart signify?  
a) You are safe b) Underway c) Unassessed d) Useful
7. Which organisation manages INDSAR?  
a) USCG b) Indian Coast Guard c) Indian Navy d) DG Shipping
8. How is shore-based weather routing considered?  
a) Mandatory b) Recommendatory c) OOW's Discretion d) None of the above
9. From where to where is a passage plan prepared?  
a) Pilot point to Berth b) Berth to Pilot Point c) Berth to Berth d) All of the above

10. Which satellite system provides data and text communications on a store-and-forward basis, but does not offer voice communications?  
a) INMARSAT-A b) INMARSAT-C c) INMARSAT-B d) Fleet-77.

### **Section B**

Five Questions of 02 Marks each

11. How are the ENCs named?
12. Explain the "Least Time Track" concept in weather routing.
13. What do you understand by the term "situational awareness" in maritime navigation.
14. Define Sea Area A3?
15. List any four publications used in the appraisal of coastal voyages.

### **Section C**

Five Questions of 10 Marks each.

16. a) State any five Features of ECDIS. (05 marks)
16. b) List any five disadvantages of ECDIS. (5 Marks)
17. List the functional requirements of GMDSS. (10 Marks)
18. (a) Write a short note on INDSAR and list its different reports. (5 marks)
- (b) What factors should be taken into account before considering an ocean passage? (5 marks)
19. (a) List any five objectives of Bridge Resource Management. (5 Marks)
- (b) Write short notes on Sailing Directions. (5 marks)
20. Describe the Appraisal stage of a Passage Plan. (10 Marks)

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