

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

Programme Name: B Sc (NS)

Semester: V

Subject Code: UG21T5501

Subject Name: Coastal Navigation & Collision Prevention Regulations

Date: 05.12.2025	Max Marks: 70
Duration: 03 Hrs	Pass Marks: 35

General Instructions

- (I) All Sections (A, B & C) are to be attempted.
- (II) All the Questions are compulsory.
- (III) English Channel Charts to be issued
- (III) Tide Curve, Graph paper, Luminous Range Diagram & Deviation Card to be provided.
- (IV) Non Programmable Scientific Calculator is permitted.

Section A

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

1. A vessel is deemed to be overtaking when approaching another vessel from a position:-
 - a) From abeam.
 - b) From forward of the beam.
 - c) Two points abaft the beam.
 - d) From port or starboard bow.

2. A Pilot Vessel on Pilotage duty in Restricted Visibility may in addition to the prescribed signals sound an ----- Identity signal
 - a) One short blast
 - b) Two short blasts
 - c) Three short blasts
 - d) Four short blasts

3. When proceeding at safe speed with operational Radar, the factor has to be taken into account:
 - a) Depth of navigable water
 - b) Concern about other vessels
 - c) Crossing vessels
 - d) Any constraints imposed on the Radar range scale in use

4. Abbreviation of IALA
 - a) International Association of Marine Aids to Navigation and Lighthouse Authorities
 - b) International Association of Marine Aids to Navigation and Light vessel Authorities
 - c) International Association of Maritime Aids to Navigation and Lighthouse Authorities

d) International Association of Maritime Aids to Navigation and Light vessel Authorities

5. As per Collision Prevention Regulations, there are:

- a) 40 Rules, 6 Parts, 4 Sections & 2 Annexes
- b) 41 Rules, 6 Parts, 3 Sections & 4 Annexes
- c) 39 Rules, 5 Parts, 2 Sections & 5 Annexes
- d) 38 Rules, 6 Parts, 3 Sections & 3 Annexes

6. Data on Paper Charts required for a Voyage along with their Editions is available in

- a) NP131 b) NP133 c) NP134 d) NP136

7. Every vessel shall at all times maintain:

- a) A proper look-out
- b) fast speed
- c) A proper course
- d) A proper watch

8. Soundings indicated on Admiralty Charts are measured from----- to sea bed

- a) Mean Low Water
- b) Mean High Water
- c) Lowest Astronomical Tide
- d) Highest Astronomical Tide

9. Leeway is applied to

- a) Course Steered
- b) Course made Good
- c) Set
- d) Drift

10. The difference between the height of a HW and the subsequent LW is called:

- a) Height of Tide.
- b) Range of Tide.
- c) Duration of Tide.
- d) Mean High Water.

Section B, Five Questions of 2 Marks each

11. Define Dead Reckoning (DR) in chart work.

12. Describe the term "Vessel Constrained by her draught".

13. Write short notes on Emergency Wreck Marking Buoys

14. Describe the Purpose of IALA Maritime Buoys System.

15. Write short notes on Sailing Directions.

Section C, All questions are of 10 Marks each.

16. (a) Find the height of tide off Singapore harbour at 1100 hrs standard time on 3rd February. The following extracts from the tide tables for the above mentioned date are given below. (7-Marks)

Time	Height
0123 hrs	2.7 m
0703 hrs	0.9 m
1302 hrs	2.9 m
1930 hrs	0.5 m

16. (b) Define the "Range of Tide" and Duration of Tide. (3-Marks).

17. (a) At 1800 hours ship steering 050° (C), Casquets Lt. Ho bore 200° (T) and Alderney Lt Ho bore 149° (T) Find the Ship's position. (3m)

17. (b) From the position at 1800 hours, find the True Course to a position with Pte. De Barfleur Lt Ho Bearing 180° (T) distance 10 miles off. (3.marks)

17. (c) From 1800 hours, find the true course to steer so as to make good the course as found in section (b) above, counteracting the current which was known to be setting 245° (T) at 3 knots, Ship's Engine speed being 10 knots. (4 marks)

18. (a) As per Appraisal in passage planning, which all publications you will refer. (5-Marks)

18. (b) Describe "Vessel Restricted in Her Ability to manoeuvre, and which other vessels are included in this. (5-Marks)

19. Write the Night (Lights) and Day signal (symbol) of the following vessel

- a. Vessel CBD (3 marks)
- b. Pilot Vessel (3 marks)
- c. Dredger (4 marks)

20. (a) Define Tide and it's 3 important factors. (5-Marks)

20. (b) While navigating at sea, your vessel encounters dense fog, what is this situation and state your action as per CPR. (5-Marks)

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