

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations– December 2023
Programme Name: B Sc (NS)

Semester: V

Subject Code: UG21T5501

Subject Name: Coastal Navigation & Collision Prevention Regulations

Date: 04.12.2023

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 respective section.
- (iii) Tidal graph for Admiralty Tide Table 1992 Volume II to be provided by the exam centre for Chart Work.
- (iv) Norrie's Tables/Nautical Almanac to be provided by the exam centre.
- (v) BA Chart 2675/5049(English Channel) to be provided by the exam centre for Chart Work.
- (vi) Scientific calculator may be used.

Section A

Fill in the Blanks / Choose the correct answer as applicable **(1 X 10 Marks)**

- 1.** A Vessel is deemed to be overtaking when approaching another vessel from a position;
 - a) Abeam.
 - b) Forward of the beam.
 - c) From starboard bow.
 - d) Two points abaft the beam

- 2.** DR to Fix is _____
 - a) Course Made Good
 - b) Estimated Position
 - c) Set and Drift.
 - d) Speed Made Good

- 3.** IMO Resolution A.893(21) gives guidance for
 - a) Tide calculation b) IALA buoyage c) Voyage planning d) None of these

- 4.** The third step in Passage Planning is
 - a) Monitoring.
 - b) Appraisal
 - c) Execution
 - d) Planning

(Five Questions of 10 Marks each. All questions to be answered)

- 16.** (a) Explain What are the steps for Passage Planning
(b) State what are the publications to be referred while during Appraisal stage of Passage Planning

(10 marks)

- 17.** A vessel while on a course of $100^{\circ}T$ found Casquet light to bear $200^{\circ}T$ at 1900h. If current was known to set $010^{\circ}T$ @ 2.5kn from 1900h to 2100h, find ship's position at 2100h if at 2100h Pte de Baflur light bore $125^{\circ}T$ (Given ship's speed 13.0kn)

(10 marks)

- 18.** Find the height of tide and depth of water at 1430 hrs on March 2nd, at a position off Singapore, where charted depth is 4 metres. Extracts from the Tide Tables for the day under reference are given below (10 marks)

Extracts from A T T	
Time	Height
Zone Time -0800	
0014	2.7 m
0603	0.8m
1209	2.9 m
1830	0.6m

(10 marks)

- 19.** Explain what you mean by a Vessel Restricted in her ability to manoeuvre. Give five examples.

(10 marks)

- 20.** What is the purpose of Cardinal Marks? Draw and describe the cardinal marks (Colour, Shape, Top mark, Light).

(10 marks)

