

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

Sep/Oct'25 SE

Programme Name: BSc. NS

Semester: VI

Subject Code: UG21T5604

Ship Manoeuvring & Collision
Prevention Regulations

Date: 04.09.2025

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.

Section A

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

1. _____ means the anchor is hanging vertically from the hawse pipe

- a) Anchor brought up
- b) Anchor coming home
- c) Anchor a'cock bill
- d) Anchor aweigh

2. The distance travelled by the vessel in the direction of the original course from starting the turn to completing the turn is called _____

- a) Transfer
- b) Advance
- c) Head reach
- d) Tactical diameter

3. When two masthead lights are carried the after one shall be at least _____ vertically higher than the forward one.

- a) 4.5 metres
- b) 4 meters
- c) 6 meters
- d) 6.5 meters

4. The term used when lowering the anchor by gear during anchoring is _____

- a) Walking down
- b) Walking through
- c) Walking back
- d) Walking away

5. The area travelled by a parted rope on its way is known as _____

- a) Danger zone
- b) Caution zone
- c) Snapping zone
- d) Snap back zone

6. One of the factors that influence a ships squat is _____

- a) Ships block effect
- b) Ships block coefficient
- c) Ships block factor
- d) Ships block efficiency

7. During restricted visibility condition a vessel shall have _____ for immediate manoeuvre

- a) steering ready
- b) engines ready
- c) fog horn ready
- d) radar ready

8. If on Auto-Steering, during steering failure, the first action is to change over to _____

- a) NFU.
- b) the other telemotor
- c) Hand steering
- d) Emergency steering.

9. _____ are ships designed for operation in polar waters at least in medium first-year ice

- a) Category C ships
- b) Category B ships
- c) Category D ships
- d) Category A ships

10. _____ is one method of preventing unauthorised access and to prevent piracy
- a) installing razor ladders
 - b) installing razor wire
 - c) installing razor railings
 - d) installing razor covers

Section B

Five Questions of 02 Marks each

- 11. State how the marking on an anchor cable is done?
- 12. Briefly explain the procedure of letting go anchor?
- 13. Define Head reach and Track reach?
- 14. Explain what is a snap back zone?
- 15. State your actions in case of Steering Gear failure?

Section C

Seven Questions of 10 Marks each of which any 05 questions to be answered.

- 16. With the aid of neat diagrams explain what is Running and Standing Mooring? (10 marks)
- 17. Explain in detail the factors affecting turning circle of ships? (10 marks)
- 18. What are the factors which make the mooring area and operation dangerous? (10 marks)
- 19. Explain your understanding of COLREGS ANNEX IV - DISTRESS SIGNALS (10 marks)
- 20. Describe what is Ice accretion and what are the dangers associated with the same? (10 Marks)
- 21. Explain the best Management Practices to deter piracy and enhance maritime security (10 marks)
- 22. What are the precautions to be taken during embarkation and disembarkation of pilots? (10 Marks)

