

**Indian Maritime University**  
**(A Central University, Govt of India)**  
**End Semester Examinations – June 2023**

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

**Semester: VI**

**Subject Code: UG21T4603**

**Subject Name: Ship Manoeuvring & Collision Prevention Regulations**

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Date: 29.05.2023	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/Fill in the Blanks of 01 Mark each – Choose the most correct answer as applicable.

1. Where is Bow Stopper located on a ship?
  - a) At the front end of the ship after windlass towards Hawsepipe
  - b) At the front end of the ship, the small rope is used to stop off the bow lines from paying out under load.
  - c) Not on board.
  - d) At the front end of the ship on the canter lines through which we pass the rope.
  
2. Distance traversed by vessel after giving wheel over & before commencing turn is called as \_\_\_\_\_.
  - a) Track Reach
  - b) Advance
  - c) Transfer
  - d) Head Reach

3. Interaction between vessels in narrow channels can be reduced by:-
- Increasing the speed of both vessels
  - Decreasing clearance of both the vessels
  - Decreasing the course of both the vessels
  - Decreasing the speed of both vessels
4. What is the correct layer of lines on split drums to get maximum holding capacity of the brake?
- Minimum one turn and maximum three layers on split drum
  - Minimum three turns and maximum one layer of turn on the drum only
  - Eight full turns on the split drums
  - Five full turn on the split drums
5. What are the most vulnerable part of the vessel wrt freedom of navigation in ice regions ?
- Propeller & Rudder
  - Accommodation Ladders
  - Engine Room
  - Lifeboats
6. The necessity to comply with the use of radar in watch keeping is a mandate from what rule in the International Regulations for Preventing Collision at Sea.
- Rule 5
  - Rule 7
  - Rule 24
  - Rule 34
7. Prior to deployment of tug which option suits most appropriate:
- Breaking stress of wire rope
  - Bollard Pull
  - SWL of Bollard
  - All of the options
8. Which is the latest Best Management Practice (BMP) for Anti-Piracy resources
- BMP 3
  - BMP 4
  - BMP 5
  - BMP 1

9. A moored vessel is at its most vulnerable to the passing of another vessel, when:-

- a) It has a very large under-keel clearance
- b) The separation distance between the ships is relatively large
- c) The passing vessel is traveling at a relatively high speed
- d) All the above answers are correct

10. When a Vessel Constrained by Draft is overtaking another power-driven vessel, which of the two is the "Give Way Vessel"?

- a) Power Driven Vessel
- b) The vessel with max beam
- c) The vessel with max speed
- d) Vessel Constrained by Draft

### **Section B**

Five Short Answer type Questions of 02 Marks each

- 11. Define Vessel Not Under Command.
- 12. State the advantages of stockless anchor.
- 13. Define Wheel-Over Point for the vessel planning to execute a turn?
- 14. How do you take care of mooring ropes on board?
- 15. State the purpose Headline/Stern line, Forward & Aft Spring lines & Breast line.

### **Section C**

Seven Long Answer type Questions of 10 Marks each of which **any 05 questions** to be answered.

- 16. a) As a watch keeper how will you keep anchor watch?  
b) Your vessel proceeding for long voyage, how will you secure anchors.
- 17. What are the signs of Dragging Anchor ? And actions to be taken onboard ship.
- 18. a) What is a squat effect and how will you reduce it?  
b) Explain the phenomenon of Interaction between two vessel's when passing each other in close proximity.

**19.** What are the important points that must be considered for safe handling of mooring operations on ships?

**20.** What are the Procedure for embarking and disembarking of pilots in restricted visibility?

**21.** a) With respect to ColRegs, list the criteria for Vessel Restricted in her Ability to Manoeuvre.

b) What are the Ship's Master planning procedure prior to entering he Somalia high risk area?

**22.** a) What is Safe Water Mark buoy, Explain with the help of a diagram (5 Marks)

b) What is Isolated Danger Mark Buoy, explain with the help of diagram ?  
(5 Marks)

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Tolani