

**Indian Maritime University**  
**(A Central University, Govt of India)**  
**End Semester Examinations – June 2025**  
**Programme Name: B Tech (ME)**  
**Semester: II**  
**Subject Code: UG11T5205**  
**Subject Name: Maritime Awareness**

Date: 16.06.2025

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. The factors which lead to international trade are

- A) Impact of inflation
- B) Impact of government policies
- C) Impact of national income
- D) All the above

2. ----- cargo refers to cargo that requires individual loading and includes goods such as art, household furniture, farm machinery, and vehicle parts.

- A) Break bulk
- B) Dry Bulk
- C) Container
- D) Liquid

3. The International Date Line serves as ----- between two consecutive calendar dates.

- A) Plimsoll lines
- B) Meridian line
- C) Benchmarking line
- D) Line of demarcation

4. International Load line certificate is valid for

- A) 4
- B) 5
- C) 3
- D) 2

5. MMD in Marine Industry stands for

- A) Mercantile Marine Department
- B) Marine machinery design
- C) Master of Management development
- D) Material machining department

6. For the ships berth is a place

- A) where ships are scraped
- B) where ships are built and repaired
- C) where ships intended to load/Discharge cargo
- D) Where ships wait for Pilot boarding

7. Rise of the bottom shell plating in the transverse direction above the base line from the keel towards the sides.

- A) Camber
- B) Sheer
- C) Tumble home
- D) Rise of floor

8. The Transverse curvature of the deck from the centreline down to the sides

- A) Rake
- B) Sheer
- C) Flare
- D) None of the above.

9. The primary objective of an engine room watch is

- A) To ensure the ship's safety and efficient operation of all machinery.
- B) To maintain a clean and tidy engine room.
- C) To perform routine maintenance tasks.
- D) To assist the bridge with navigation duties.

10. Outward curvature of the vessel's bow plating is known as

- A) Camber
- B) Bilge radius
- C) Flare
- D) None of the above.

## Section B

Five Questions of 02 Marks each

11. Enumerate the factors that influence International Trade.
12. Give definitions of the following i) Climate ii) Tide
13. Define the term Length between perpendicular.
14. What is the purpose of having jetty?
15. What is the role of engine department on-board the ships?

## Section C

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

16. A) Draw to scale the Load line marking on-board the ships and mention its significance. **(7 marks)**  
B) How does Tides affect sea transport? **(3 marks)**
17. Define the following terms with a simple sketch a) Length between perpendicular b) Tumble home c) Sheer d) Camber e) Flare **(10 marks)**
18. A) Sketch & Label an Elevation of a General Cargo Ship showing Holds, Engine Room, Peak Tanks, Double Bottom, Hatchways and Position of Bulkheads **(7 marks)**  
B) Why Longitudinal framing arrangement is required in ships exceeding 100 m **(3 marks)**
19. A) Explain in detail about the ship breaking yard. **(7 marks)**  
B) Enumerate the function of berth. **(3 marks)**
20. A) Classify the different modes of transport? **(3 marks)**  
B) What are the demerits of using different modes of transport? **(7 marks)**
21. With regard to shipboard organisation, make a chart indicating deck and engine department and also describe the duties of fourth and Junior engineer **(10 marks)**
22. Explain in detail about the different types of bulkheads used on-board the Ships **(10 marks)**

