
Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2026
Programme Name: B Tech (ME)
Semester: II
Subject Code: UG11T5205
Subject Name: Maritime Awareness

Date: 10.06.2026

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 of 01 Mark each – Choose the correct answer as applicable.

1. What is the vertical distance between the waterline and the bottom of the hull (keel) called?

- A) Freeboard
- B) Beam
- C) Draft
- D) Displacement

2. The term "List" in ships refers to

- a) Forward tilt
- b) Sideways inclination
- c) Ship speed
- d) Cargo type

3. The term "General Cargo" refers to goods that are:

- A) Poured directly into the hold (like grain)
- B) Carried in discrete units like boxes, drums, or pallets
- C) Only transported by air
- D) Liquid substances like chemicals

4. Which strategic "chokepoint" connects the Atlantic Ocean to the Mediterranean Sea?

- A) Strait of Hormuz
 - B) Strait of Malacca
 - C) Strait of Gibraltar
-

D) English Channel

5. In a ship's crew hierarchy, who is directly responsible for the maintenance of the main engine and machinery?

- A) Chief Officer
- B) Bosun
- C) Chief Engineer
- D) Second Officer

6. "Ro-Ro" ships are specialized vessels designed to carry which type of cargo?

- A) Raw iron ore
- B) Wheeled cargo like cars and trucks
- C) Refrigerated medicine
- D) Liquefied Natural Gas (LNG)

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

- a) Rake
- b) Sheer
- c) Flare
- d) None of the above.

8. 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.

9. Which of these is a major "dry bulk" commodity?

- A) Gasoline
- B) Coal
- C) Wine
- D) Smartphones

10. FOSMA is primarily associated with which of the following functions in maritime administration

- a) Regulation of international shipping safety
 - b) Recruitment and welfare of seafarers
 - c) Ship construction and design
 - d) Navigation and route planning
-

Section B

Five Questions of 02 Marks each

11. Enumerate the demerits of Air transportation.
12. What are straits and seas? Name two important seas and straits of the world
13. What is the purpose of IMO?
14. What is "bunkering" of a ship?
15. What is the primary purpose of Double bottom in ship?

Section C

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

- 16 a) Explain the merits and demerits of sea transportation. (4 marks)
b) Describe the different factors which lead to international trade. (6 marks)
 - 17 Describe at least five different International major ports for their significance because of type of cargo handled and geographical location. (10)
 - 18 a) Sketch and describe the Load line marking on-board the ships. (7 marks)
b) Justify with reasons, how does Wind affect sea transport? (3 marks)
 19. a) Compare shipyard and ship-breaking activities with respect to purpose, operations and impact. (6 marks)
b) Explain the role and functions of the Mercantile Marine Department in ensuring maritime safety in India. (4 marks)
 - 20 a) Sketch & describe a General Cargo Ship showing Holds, Engine Room, Peak Tanks, Double Bottom, Hatchways and Position of Bulkheads (7 marks)
b) Why is ballasting and de-ballasting required on-board the ships? (3 marks)
 - 21 Explain the organization of a ship by describing the structure, functions and responsibilities of personnel in both the Deck Department and Engine Department. (10 marks)
 22. Illustrate in detail about the different types of Bulkheads used on-board the ships. (10 marks)
-

