

Indian Maritime University
(A Central University, Govt of India)
March/April 2024 - Supplementary Examinations
Programme Name: B Tech (ME)
Semester: I
Subject Code: UG11T4106
Subject Name: MARITIME AWARENESS

Date: 24.04.2024

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

01 Mark each

1. When the ship is UPRIGHT, it's _____

- a) Trim is 0 meter.
- b) List is 0 degree.
- c) None of the above.
- d) All of the above

2. What do bulk carrier ships dont carry?

- A: Food grains
- B: Chemicals
- C: Coal
- D: Cement

3. Which of the following major cargo and goods are moved through sea route?

- A: Food
- B: Livestock
- C: Crude oil
- D: All of the above

4. What is the most important role of water transport?

- A: Export and import of large weight of goods
- B: Tourism
- C: Fast transportation
- D: None of the above

5. _____ Canal was first opened in 1914.

- a) Panama
- b) Suez
- c) Kiel

d) Grand

6. Which of the following are not related to Sounding?

- A: Voyage planning
- B: Cargo planning
- C: Ship stability
- D: Length of dry docking

7. Why is ventilation important in cargo holds?

- A: For crew members' health
- B: To provide fresh air into cargo holds
- C: To prevent water logging
- D: None of the above

8. Choose the right term for length of ship or boat at the level where it sits on water:

- A: Forward perpendicular
- B: Length on waterline
- C: Sheer
- D: Camber

9. Why is ballasting important?

- A: To adjust and distribute weight of vessel to keep ship afloat
- B: To create space for cargo
- C: Both of the above
- D: None of the above

10. What is the left side of the ship called?

- A: Port
- B: Starboard
- C: Stern
- D: Left side

Section B

02 Marks each

- 11. Mention five major bunker ports of the world.
- 12. What is jetty and its purpose?
- 13. According to ship organizational structure, who takes command of ship when Master is incapacitated?
- 14. Name the Gulfs, Straits, and Seas in Indian Ocean.
- 15. What is the purpose of time zones?

Section C

Any 05 questions to be answered

- 16.A) What is the full form of DGS? (2 marks)
- B) Name any 6 duties/ responsibilities of DGS (8 marks)
- 17.A) What is the role of Master onboard a vessel? (3 marks)
- B) What are the roles of deck department, engine department, onboard a vessel? (7 marks)

18. A) Sketch general cargo ship's longitudinal view. Label various parts-cargo holds, engine room, peak tanks, bottom tanks and crane. (5 marks)
B) Define following principal dimensions of the ship- Length overall, Forward perpendicular, moulded depth, moulded beam and moulded draft. (5 marks)
19. A) Differentiate between shipyard and scrapyard (5 marks)
B) Explain how ships are scrapped (5 marks)
20. Explain the importance of Panama & Suez Canals in sea transportation. (10 marks)
21. Define and briefly mention the purpose of:
A) Harbour (2 marks)
B) Berth (2 marks)
C) Ballasting (2 marks)
D) SBM (2 marks)
E) Rudder (2 marks)
22. (A) Sketch the plan view of tanker showing the arrangements of cargo. (5 marks)
(B) Describe the importance with simple sketch about the following dimensions of the ship- Camber, Rise of floor, Flare, Sheer and Rake. (5 marks)