

**INDIAN MERITIME UNIVERSITY**

(A Central University Government of India)

Supplementary Examinations – March / April 2024

PROGRAMME NAME: B Sc (NS)

SEMESTER: 1

SUBJECT CODE: UG21T5105

SUBJECT NAME: GENERAL SHIP KNOWLEDGE

DATE: 16.04.2024

MAX.MARKS: 70

DURATION: 03 HRS

PASS MARKS: 35

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Note: Part-A and Part-B are compulsory. In Part-C Attempt any 5 questions out of remaining 7 questions.

**PART-A**

Fill in the blanks.

(1 mark each)

1. Horizontal line drawn at the top of the keel plate is called \_\_\_\_\_
2. Anti-heeling tanks are found in \_\_\_\_\_ type of ships.
3. The tanks on ships used to store fuel and lube oil are known as \_\_\_\_\_
4. The distance measured between water line to the deck plating at the side of mid ship is known as \_\_\_\_\_
5. The purpose of the bilge keel is \_\_\_\_\_

Choose the correct answer.

(1 mark each)

6. When two plates welded together in same stake of hull is called  
A) Brackets      C) Seam  
B) Butt            D) Stiffener
7. Extreme length of the ship is called  
A) Forward perpendicular      C) Aft perpendicular  
B) Length between perpendicular      D) Length over all
8. Ships anchor generally secured in  
A) Hawse pipe      C) Chain locker  
B) Spurling pipe      D) None of the above
9. The purpose of the Camber on board is to

- A) To reduce volume of water coming on deck C) To improve the appearance of the ship  
B) To drain of water from deck easily D) Help to drain water in bilges

10. The stem is the

- A) After most part of the vessel C) The end of the Mast  
B) The foremost part of the vessel D) None of the above

### **PART-B**

Write short notes on the following

(2 Marks each)

11. Garboard strake
12. Stiffener
13. Poop deck
14. Tides
15. Bilge well

### **PART-C**

Answer any five out of seven questions. (10 marks each)

16. Draw a simple profile view of a Container ship and explain?
17. Sketch and label Load line marking on the starboard side of the merchant vessel ?
- 18 (a) List out different types of ships. (5 marks)  
(b) Write short notes on tanker vessel. (5 marks)
19. With simple sketches explain the bilge keel and its advantages?
20. Define the following with a sketch of the ship? (4+3+3)
  - a) LBP
  - b) Rise of floor
  - c) Air draft
21. Briefly describe about shell expansion plan and its use?
22. Draw a sketch of engine room layout name the machineries?

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