

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Government of India)  
**End Semester Examination Dec 2019/Jan 2020**  
**B.Sc. (Nautical Science)**  
**Semester -I**  
**UG21T3105- General Ship Knowledge**

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**Date: 19.12.2019**

**Max Marks: 70**

**Time: 3 Hours**

**Pass Marks: 35**

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**Note: Question No. 1 is compulsory.**

**Answer any 6 questions from remaining 8 questions (each of 10 marks).**

**Scientific Calculators permitted if required.**

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Q.1 Define following (5\*2 =10 marks)

- a) Air Draft
- b) Sheer of Deck
- c) Freeboard
- d) Draft
- e) LOA

Q2. (a) Write short notes on "Tankers". (5\*2 =10 marks)

(b) Describe the different types of ships and their functions.

Q3. (a) Sketch and label ship load line marking. (5\*2 =10 marks)

(b) List out name of machineries/equipment seen in an Engine room.

Q4. Define: (5\*2=10 marks)

- |              |               |               |
|--------------|---------------|---------------|
| 1) Duct keel | 2) Hawse pipe | 3) Cargo Hold |
| 4) Base line | 5) Camber     |               |

Q5. (a) Describe purpose of (5\*2 = 10marks)

- |                 |                         |
|-----------------|-------------------------|
| 1) Hatch covers | 2) Double bottom tanks) |
|-----------------|-------------------------|

Q6. (a) List major equipment on bridge and their usages. (5\*2 = 10marks)

(b) Describe sheer strake and garboard strake.

Q.7. Sketch & Label Midship section **(One)** of the following. (10 marks)

- |           |                 |
|-----------|-----------------|
| 1) Tanker | 2) Bulk carrier |
|-----------|-----------------|

Q8. Draw a ship diagram and mark the following (2.5\*4 =10 marks)

- |                       |                        |
|-----------------------|------------------------|
| a) Bulbous bow        | b) Double bottom tanks |
| c) Collision bulkhead | d) Chain Locker        |

Q.9. Describe and purpose of the following (5\*2=10 marks)

- |                  |                |
|------------------|----------------|
| a) Sounding pipe | b) Ventilators |
|------------------|----------------|