

**INDIAN MARITIME UNIVERSITY**  
(A Central University, Government of India)

**End Semester Examination December 2017**

**Programme:** B.Sc (Nautical Science)

**Semester:** I

**Subject Name:** General Ship Knowledge

**Subject Code:** UG21T3105

**Date:** 14.12.2017

**Maximum Marks:** 70

**Time:** 3 Hrs

**Pass Marks:** 35

**Instructions.**

**SECTION A. (Compulsory)**

- 1) Sketch the following (5 X 2 MARKS)
- a) Length between perpendiculars
  - b) Moulded beam.
  - c) Camber of deck
  - d) Draft, freeboard
  - e) Tumblehome.

**SECTION B**

**Answer any five out of eight questions.**

- 2) Draw and label the starboard side load line marks of a bulk carrier with dimensions. (12 marks)
- 3) Draw and label the midship section of general cargo ship. (12 marks)
- 4) a) Explain the numbering system of hull and deck plating. (6 Marks)
- b) Draw and explain garboard strake, sheer strake. (6 marks)
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- 5) a) Draw and label the fore peak tank (6 Marks)
- b) Draw and label the double bottom tank (6 Marks)

6) Draw and explain the working of following.

a) Sounding pipe (6 Marks)

b) Air pipes. (6 Marks)

7) Explain the following. (3 x 4 marks)

a) Current                      b) time zone                      c) load line zones.

8) Name the most appropriate ship required to carry following cargo.

(12 x 1 marks)

a) Coal

b) Liquefied petroleum gas.

c) fruit juice

d) Chloroform

e) Rice bags

f) Trucks

g) Elephant

h) Gold

i) Kerosene

j) Laptops

k) Meat

l) Fresh water

9) Draw the engine room layout name the machineries.

(12 marks)