

**INDIAN MARITIME UNIVERSITY**  
(A Central University Government of India)  
END SEMESTER EXAMINATIONS-June/July 2019  
**B.Sc Nautical Science**  
**Semester-I**  
**General Ship Knowledge**  
**(UG21T4105)**

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**Date: 18-07-2019**

**Maximum Marks: 70**

**Duration: 3 hrs.**

**Pass Marks: 35**

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

**Answer any 6 questions from remaining 8 questions (each of 10 marks)  
Scientific Calculator is permitted if required.**

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- Q.1 Short Questions starting with word define or state from Units 1 to 12  
(2 x 5 = 10 marks)
- (a) Define "Freeboard"
  - (b) Define "High tide"
  - (c) Define "Air Draft"
  - (d) Define "LOA"
  - (e) Define "camber"
- Q2. (a) Describe the different types of Ships and their functions. (5 marks)
- (b) Write short notes on Ro-Ro ship. (5 marks)
- Q3. (a) Draw a neat diagram with dimensions for Load Line Marks of the Starboard side of a merchant vessel. (5 marks)
- (b) List out name of machineries/equipments as seen in an engine room of a ship. (5 marks)
- Q4. (a) Define (i) Length Between Perpendiculars (LBP), (ii) Rise of floor, (5 marks)
- (b) Define (i) Moulded Breadth, (ii) Sheer & Base line (5 marks)
- Q5. (a) Write short note on Duct keel. (5 marks)
- (b) Draw an elevation of a ship and mark forward collision bulkhead, double bottom tanks, engine room, Hold bulkhead, After peak tank (5 marks)
- Q6. (a) List Out equipments in wheel house (5 marks)
- (b) Define sheer strake and garboard strake (5 marks)

Q.7. Describe types of tankers. Sketch and label midship section of oil tanker  
(10 marks)

Q8. Describe the following: (2x5=10 marks)  
a) Bilge keel  
b) Double bottom tank.

Q.9. Describe the following: (10 marks)  
a) Sounding pipe  
b) Air pipes

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