

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS- DECEMBER 2018
B.Sc. (Nautical Science)
SEMESTER-I
General Ship Knowledge (UG21T4105)

Date: 07.01.2019

Maximum Marks: 70

Time: 3Hrs

Pass Marks: 35

Note: Question No. 1 is compulsory.

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

Non- programmable Scientific Calculator is permitted, if required.

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- 1 a) Define L.O.A (2x5=10 marks)
b) Define "Summer Draft"
c) Define "Freeboard"
d) Define "Flare" with sketch
e) What is "striker Plate"?
 - 2 a) List out different types of ships. (5 marks)
b) Write short note on Ro-Ro ships. (5 marks)
 - 3 a) Sketch and describe load line (Plimsol) marks as seen on starboard side of the ships. (5 marks)
b) List out name of machineries seen in a engine room of a ship. (5 marks)
 - 4 a) Show by sketch "sheer of the deck" and "air draught". (5 marks)
b) Define, bilge, camber, tumblehome and bilge radius. (5 marks)
 - 5 a) Draw an elevation of a ship and mark bow, stern frame, fore peak, aft peak and bulk head. (5 marks)
b) Write short notes on fore peak tank. (5 marks)
 - 6 a) List out equipments seen in wheel house. (5 marks)
b) What is the purpose of shell expansion plan? (5 marks)
 - 7 a) Write a short note on gas carrier. (4 marks)
b) Draw a mid ship section of a bulk carrier and label parts. (6 marks)
 - 8 What is double bottom and the purpose of a double bottom tank? (10 marks)
Sketch and label parts of a solid floor in a double bottom tank.
 - 9 a) What is the purpose of Air pipe & sounding pipes? (5 marks)
b) Sketch and describe a typical sounding pipe for ER DB tank with self closing arrangements. (5 marks)
