

INDIAN MARITIME UNIVERSITY
(A Central University Government of India)
END SEMESTER EXAMINATIONS-June/July 2019
B.Sc Nautical Science
Semester-VI
Naval Architecture - II
(UG21T3602)

Date: 26-06-2019

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.

- Q. 1 Define /State the following: (2x5=10 marks)
- (a) Docking Plan.
 - (b) Role of Sacrificial Anode in Corrosion Prevention.
 - (c) Define "Floodable Length" with respect to passenger ship subdivision.
 - (d) State various Categories of Gas Tankers.
 - (e) RoRo Ships.
- Q.2 (a) Discuss various informations required prior preliminary design of a Merchant Ship. (5 marks)
- (b) Importance of maintaining water tightness for Bow/Stern door on RoRo Ships. (5 marks)
- Q.3 (a) Discuss briefly "General Arrangement Plan" of a Ship. (5 marks)
- (b) Discuss briefly, the preparation required, prior a ship is ready for sea Trial. (5 marks)
- Q.4 Midship Section of the following:
- (a) "Gas Transport Membrane Tank" on Gas Tankers. (5 marks)
 - (b) Chemical Tanker (5 marks)
- Q.5 (a) Discuss various Causes for corrosion on Merchant Ships. (5 marks)
- (b) Sketch and Explain "Impressed Current System" for corrosion Prevention on Ships. (5 marks)
- Q.6 (a) Discuss the Role and functions of Classification Societies. (5 marks)
- (b) List five Classification Societies and discuss IACS. (5 marks)
- Q.7 Write Short notes on the following:
- (a) Net Tonnage (NT) (5 marks)
 - (b) Gross Tonnage (GT) (5 marks)
- Q.8 With respect to conditions of assignment of Freeboard, Discuss the following:
- (a) Information to Master.(Reg. 10) (5 marks)
 - (b) Opening on Deck and Ventilators. (Reg.18 & 19) (5 marks)
- Q.9 Explain the following with regard to Passenger Ships.
- (a) Factor of Subdivision (5 marks)
 - (b) Criterion of Service Numeral (Cs). (5 marks)