

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
End Semester Examination Dec 2019/Jan 2020
B.Sc. (Nautical Science)
Semester -VI
UG21T3602- NAVAL ARCHITECTURE PAPER II

Date: 02-01-2020
Time: 3 Hrs

Max Marks: 70
Pass Marks: 35

Note: Question No. 1 is compulsory.

Answer any 6 Questions out of remaining 7 All Questions carry equal marks of 10.
Non-programmable Scientific calculator is permitted

- Q.1 Answer the following (2 x 5 =10 marks)
- (a) State functions of a Drawing Office or Optical Detailing or Design Office in Ship yard practice.
 - (b) State how availability of oxygen affects corrosion.
 - (c) Define "Binder" in Paint.
 - (d) Define Type –B ship
 - (e) Define Margin Line
- Q2. (a) What are the principles of ship design. (5 marks)
(b) Describe contract (full) design. (5 marks)
- Q3. (a) List the sequence of events of a ship construction carried out at Shipyard. (5 marks)
(b) Describe lofting and fairing techniques in Ship Yard. (5 marks)
- Q4. (a) Describe Lighter Aboard Ship. (5 marks)
(b) Categorise different types of Chemical Tankers as per IBC Code. (5 marks)
- Q5. (a) Describe the principle of Galvanic Cell. (5 marks)
(b) Describe Electro-Chemical Corrosion. (5 marks)
- Q6. (a) What are the features of Harmonised System of Survey and Certification? (5 marks)
(b) What is Enhanced Survey Program? Explain. (5 marks)
- Q7. (a) How gross tonnage is calculated? (5 marks)
(b) What are uses of Gross and Net Tonnage? (5 marks)
- Q8. (a) Describe requirements for ventilators as per load line convention. (5 marks)
(b) Explain type 'A' ship. (5 marks)
- Q.9. (a) Describe Floodable length. (5 marks)
(b) Describe "factor of sub-division". (5 marks)
