

INDIAN MARITIME UNIVERSITY
(A Central University, Govt. Of India)
B.Sc. (NAUTICAL SCIENCE)
End Semester Examinations June-July 2019
SEMESTER IV
Naval Architecture – PAPER IV
(UG21T2409)

Date:13-07-2019

Max Marks: 70

Time:3 Hrs

Pass Marks: 35

Note:

1. Use of non-programmable scientific calculator is allowed.
2. Candidates must show the complete working (including rough work).

Section A

Attempt any 3 questions. All questions carry equal marks

1. Sketch and label the midship section of Bulk carrier.
2. Sketch and label the propeller.
3. Describe the role played by the classification societies.name a few Classification society.
4. Sketch and label the semi-balanced rudder.

Section B

Attempt any 4 questions. All questions carry equal marks

5. M.V.Hindship is at an even keel draft of 9.35m in dock water of RD 1.004 Calculate her drafts F & A on reaching the sea. Assume fuel and fresh water Consumption negligible.
6. What are the various informations which can be obtained from statical stability curve ?
7. Discuss the effect on GM for ships carrying deck cargo.
8. What are the intact stability characteristics of any ship carrying grain in Bulk ?
9. List various information that can be obtained from stability booklet of a merchant ship.