

INDIAN MARITIME UNIVERSITY

(A Central University, Govt. of India)

Term End Examination – December 2015

B.Tech (Marine Engineering)

Sub Name: Seamanship, Elementary Navigation & Survival at Sea Sub Code: UG11T2201/UG11T1201

Semester: 2nd

Date: 07.12.2015 AN

Time : 0300Hr

Max Marks: 100

Pass Marks: 50

PART A

(10x3 = 30 MARKS)

Compulsory Questions

- Q1) a) How look out is maintained
b) What are the precautions to be taken on deck for bad weather?
c) Rescue boat.
d) Immersion suit and TPA
e) Alarms mentioned on the muster list
f) What are the pyrotechniques carried in life boat
g) Difference between mooring winch and windlass
h) Weighing of anchor
i) GMT
J) Launching of inflatable life raft.

PART B

(5 x 14 = 70 Marks)

Answer any Five of the Following

- Q2)a)What are the types of ropes used on ship. (2 x7marks)
b)How to avoid damage to mooring ropes during mooring operations.
- Q3) a)What the different types of logs and state is uses. (2 x 7 marks)
b) Explain the working principle of marine sextant.
- Q4)a)What are the errors in of echo sounder detection. (2 x7 marks)
b) What is ranging in GPS?
- Q5) Name the equipments available in the lifeboat (14 marks)
- Q6)a)State the annexe of marpol. (2 x 7 marks)
b) Explain the working of the equipment used to control the discharge of the oily water mixture from cargo spaces.
- Q7) a)Explain the duties of ship security officer. (2 X 7 marks)
b)What are the security levels as per ISPS code.
- Q8) How celestial bodies can be used to find the ships position. (14 marks)