

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)

December 2016 End Semester Examinations
B.Sc. (Nautical Science)- First Semester (2013 – 15 batches)

Ship Operations (UD11T2205)

Date : 19.12.2016

Time: 2 Hrs

Maximum Marks: 70

Pass Marks : 35

Note: Question paper consists of two sections.

Answer any 4 questions from Section A and any three from Section B

Section – A

- 1) (a) State the conditions under which oily mixture from the machinery space bilges may be discharge in to sea outside special area. (5)
(b) List the special areas for the purpose of ANNEX-1 of MARPOL. (5)
- 2) Write short notes on the following: (2.5 x 4 = 10)
 - a. Drill planner
 - b. Fall preventive device
 - c. Muster List
 - d. Port State Control
- 3) State any 5 major machineries in the Engine room & state their functions in brief. (10)
- 4) a. Draw a neat sketch of a globe valve and label the parts (5)
b. Write in brief about what you understand by water tube and fire tube boilers. (5)
- 5) With a neat sketch explain the function of a two ram hydraulic steering gear. (10)

Section – B

- 6) Draw and state the meaning of the following lphabet flags: (2 x 5 = 10)
“A”, “H”, “G”, “Q”, “U”
- 7) a. What is the safety signal and what does it indicate? (5)
b. Prepare a distress message to be transmitted on Radio telephony (5)
- 8) Write short note on the following: (5 x 2 = 10)
 - a. Role of Shipping Master
 - b. Natural & Manmade Ports.
- 9) Discuss the relations between ship-owner, agent, stevedore, charterer, shipper and broker. In the discussion mention the role of a Bill of Lading. (10)
