

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)
END SEMESTER EXAMINATIONS – DECEMBER 2019
B.Sc. (Nautical Science)
Semester: IV

UG21T3404- Ship Maintenance and Emergencies

Date: 07-01-2020

Max Marks: 70

Time: 3 Hours

Pass Marks: 35

Note: Question No. 1 is compulsory.

Answer any 6 questions from remaining 8 questions (each of 10 marks).

Non Programming Scientific Calculator is permitted if required.

- Q.1 (5x2=10 marks)
- (a) State any two equipment used for manual descaling.
 - (b) State the purpose of Planned Maintenance System on board a vessel.
 - (c) State the words used to prefix a distress message and an Urgency Message.
 - (d) State the need to carry out Fumigation on board a ship.
 - (e) State the publication (not abbreviation) where search patterns are described.
- Q2. Describe the cause of any five paint defects (10 marks)
- Q3.
- (a) Write a short note on Inspection and Maintenance of a DB tank (5 marks)
 - (b) How are the joining shackles on an anchor chain marked (5 marks)
- Q4.
- (a) Differentiate between planned maintenance, incidental maintenance and corrective maintenance. (5 marks)
 - (b) List out the items you would check on the coamings while carrying out the planned maintenance of hatch covers. (5 marks)
- Q5.
- (a) Describe the actions to be taken upon Stranding of own vessel. (5 marks)
 - (b) Describe the emergency response required upon collision of own vessel. (5 marks)
- Q.6
- (a) Describe with a help of a neat sketch the search pattern – “Sector Search” (5 marks)
 - (b) A man has fallen overboard from a vessel making way through water from the starboard side. Describe the actions to be taken by the OOW including the Williamson Turn (5 marks)
- Q.7 List out the standard items that are usually inspected / repaired during a vessels dry dock. (10 marks)
- Q.8 Describe the process of Fumigation of cargo holds. (10 marks)
- Q.9 Your vessel is due for a Safety Equipment survey. What all items would you check in the Life boat? (10 marks)
