

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – December 2022
Programme Name: B Sc (NS)
Semester: V
Subject Code: UG21T4503
Subject Name: SHIP MAINTAINENCE AND EMERGENCIES.

Date: 14.12.2022

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted.
(ii) Options, if any, are specified in respective section.
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Part A – (10 X 01 Mark)

- (1) Which of the following statement(s) is/ are correct
- 1 Spray Guns are used for surface preparation before painting
2 Packings are used to prevent leakage from Joints
(A) 1only (B) 2 only (C) Both 1&2 (D) Neither 1 nor 2
- (2) The function of I.C.C.P system is
- (A) Prevent hull Corrosion (B) Maintain Ship Stability
(C) Protect the paint (D) Reduce Emission
- (3) Which of the following is widely used as thinner in paints
- (A) Red lead (B) Zinc Sulphate
(C) Turpentine oil (D) Zinc molybdate
- (4) Grease is used as Lubricants in
- (A) Gears (B) Bearings (C) Chains (D) All of the above
- (5) During Emergency Crew need to assemble first at
- (A) Muster station (B) Wheel House (C) Deck (D) Emergency site

(6) Which of the following is not a load line survey item

(A) Air vents (B) Ventilators (C) Freeing ports (D) None

(7) Pintle clearance measurement is done in

(A) Rudder (B) Propeller (C) Anchor (D) Stern Tube

(8) Validity of IOPP certificate is

(A) 3 years (B) 5 years (C) 2 years (D) 1 year

(9) Which of the following turn is used for rescuing man overboard

(a) Williamson Turn (b) Scharnow Turn (c) Anderson Turn (d) All of them

(10) Emergency Towing Booklet shall be located at

(a) Bridge (b) Forecastle Space (c) Cargo control room (d) All the above

Part B – Answer all Five (05 X 02 Marks)

11) What is the concept of MSDS in paint system

12) What are the different types of lubricants?

13) What is the significance of PMS?

14) What is the purpose of Docking Plan drawing?

15) Enumerate any four component under the scope of SRT survey

Part C --Answer Any 5 (05 X 10 Marks)

16) Describe various painting defects their causes (10)

17) Explain how to assess the condition of a Ballast Tank (10)

18) (a) State the purpose of division of crew in to different teams(5)

(b) What are the various types of emergencies that can occur in ship(5)

19) (a) Which are the ways Pest gain access to ship (4M)

(b) Explain different pest control methods (6M)

20) You are posted as a cadet in a VLCC. The Annual Safety Equipments survey of the ship is due by next month. Master asked you to prepare a checklist for preparing vessel for SEQ survey. Prepare a Checklist for the SEQ survey

21 What are the routine maintenance work carried out in Drydock (10)

22) Write Short notes on

(a) Maintenance of Hatch Cover (3)

(b) Contents of IAMSAR Volume III-(3)

(c) Abandoning ship (4)

Tolani

