

**Indian Maritime University**  
**Supplementary Examinations – September/October 2024**

**B Sc (NS)**  
**UG21T4503**

**SHIP MAINTENANCE & EMERGENCIES**

<b>Date – 09.09.2024</b>	<b>Total Marks - 70</b>
<b>Pass Mark - 35</b>	<b>Duration – 03 Hours</b>

*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) 1 only (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)

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