

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2024
Programme Name: B Sc (Nautical Science)
Semester: 6
Subject Code: UG21T5603
Subject Name: Ship Maintenance and Emergencies

Date: 03.06.2024

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

- (i) All Sections (A, B & C) are to be attempted,
(ii) Section A and B all the Questions compulsory, in Section C answer any five question

Section A

Answer all 10 questions in this section
(10x1mark=10marks)

1. Validity of IOPP certificate is _____ years
2. During the Emergency Ship's crew need to Assemble first at _____
3. The function of Impressed Current System is _____
4. Stringent rules have come into play, mandating the right upkeep of the crew accommodation as well as general welfare onboard as per _____ convention
5. _____ number of dots seen on the X-Band Radar when the SART is activated
6. IAMSAR stands for _____
7. As per SOLAS, Lifeboats must be lowered to water every _____
8. Grease is used as lubricant in
 - a. Gears
 - b. Bearings
 - c. Chains
 - d. All the above
9. Sacrificial anodes are usually found
 - a. Near the Propeller

- b. On the Main Deck
- c. Inside the Accommodation
- d. Inside the freshwater tanks

10. The purpose of an EPIRB is

- a. To be detected by other ship's Radar
- b. to enable survivors to talk to their home
- c. to control the stability of the vessel
- d. to assist authorities to locate survivors for search and rescue

Section B

**Five Questions of 02 Marks each answer all questions
(5x2marks=10marks)**

- 11. Write down atleast four Painting Defects
- 12. State the dangers of excess lubrication
- 13. Enlist atleast four parts of the hatch cover that should be kept lubricated.
- 14. List the precautions required to be observed prior entering battery room
- 15. List the various ships plans used during dry dock

Section C

Answer any five out of Seven Questions each carries 10 marks.

- 16. a. Describe maintenance of lifeboat davits as per Planned Maintenance System (PMS) (5marks)
b. Explain contents of Fire control plans onboard ship (5marks)
- 17. a. List 5 common types of paints used onboard ship (5marks)
b. describe the use of Self Polishing Antifouling Paint (5marks)
- 18. a. Describe maintenance of Gangway & Accommodation ladders (5marks)
b. List out the advantages of Planned Maintenance over Breakdown Maintenance. (5marks)
- 19. State the checks to be made prior to flooding of Dry dock. (10marks)

20. a. Describe the actions to be taken on receipt of a distress message (5m)
b. Describe the methods of controlling insect infestation. (5m)
21. With simple sketch describe various types of turns used for rescuing Man Overboard. (10marks)
22. How will you prepare your vessel for the Load Line Survey (10marks)

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