

Indian Maritime University
(A Central University, Govt of India)
Supplementary Examinations – March / April 2024
Programme Name: B Sc (NS)
Semester: V
Subject Code: UG21T5505
Subject Name: MARINE ENVIRONMENTAL PROTECTION

Date: 06.04.2024

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.

Section A

Ten MCQs/Fill in the Blanks of 01 Mark each – Choose the correct answer as applicable.

1. International Convention for the Prevention of Pollution from Ships (MARPOL) entered into force on _____.

2. Which of the following is oil as per MARPOL annexure 1

- (A) Heavy Fuel Oil
- (B) Crude Petroleum
- (C) Sludge generated in ship
- (D) All of them

3. Which of the following is not a requirement as per MARPOL

Regulations for the Control of Pollution by Noxious Liquid Substances in Bulk

- (A) Cargo record book
- (B) Oil Record book
- (C) P& A Manual
- (D) None of these

4. Harmful substances are those substances which are identified as marine pollutants in the

5. The validity of International Air Pollution Prevention Certificate shall not exceed a period of

- (A) 3 years (B) 4 years (C) 5 years (D) 1 year

6. The abbreviation IEEC stands for_____.

7. Who sign the Declaration of Antifouling System ?

8. Glass & Crockery can be disposed in to sea after what distance from Nearest land

9. The BWM convention requires that vessels should conduct ballast water exchange at least _____nautical miles from the nearest land.

10. Name the designated national authority in India for Oil Spill response in Indian water under National Oil Spill Disaster Contingency Plan.

Section B

Five Questions of 02 Marks each

11. Write the names of any four components mentioned in IOPP certificate?

12. Which are the surveys pertaining to carriage of noxious liquid substances in bulk in a ship?

13. Under what circumstances can harmful substances defined in Annex III be jettisoned?

14. What are the entries to be made in Garbage record book

15. Define an ECA with examples.

Section C

Seven Questions of 10 Marks each of which any 05 questions to be answered.

Questions which have two parts (a & b) carry equal marks for both parts (5 marks each).

16. What are the requirements for a container vessel to comply with ?

17. MARPOL Annexure I - What is the criteria for ship-board garbage discharged at sea outside special areas?

18. (a) What is marine pollutant as per IMDG code (5M)

(b) What are the compliance requirements for carriage of Marine pollutant as per MARPOL regulations (5)

19.) (a) What are the conditions to discharge Sewage from ship (5M)

(b) What are the requirements for obtaining ISPP certificate? (5M)

20. Draw and label a Marine Sewage Treatment Plant and explain its working.

21. a) Describe the various methods of ballast exchange (D1)

b) Draw and label a typical Ballast Water Treatment plant.

22. Write Short notes on

(a) Anti fouling Paint Pollution (10M)

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