

Indian Maritime University

Supplementary Examinations – March/April 2024

B Sc (NS)

UG21T4606

Sem VI

MARINE ENVIRONMENTAL PROTECTION

Total Marks-70

Pass Marks- 35

Date: 22.03.2024

TIME -3 HRS

General Instructions

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

Part A – (10 X 01 Mark)

Choose the correct Answer (Question 1-5)

- (1) Which of these Ship accident was considered as catalyst for adoption of MARPOL convention
(A) Torrey Canyon (B) Titanic (C) Amoco cadiz (D) Loyalty
- (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) Comminuted food waste can be disposed at what minimum distance from nearest land outside Special Area
(A) 5 nm (B) 3 nm (C) 6 nm (D) 12 nm
- (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

Answer the following questions (Question No 6-10)

- (6) What does SEEMP 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) Vapour Emission Control regulations are applicable to which type of Ships?
- (10) Name the designated national authority in India for Oil Spill response in Indian water under National oil Spill Disaster Contingency Plan.

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

- 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) Write names of any two certificates issued as per MARPOL regulations for all ships above 400GT
- 14) What are the entries to be made in Garbage record book (any four)
- 15) What is the objective of BDN?

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

- 16) What are the requirements for a container vessel to comply with MARPOL Annexure I (10M)
- 17) (a) What are the categorization of Noxious Liquid substances as per MARPOL Annexure II (5M)
(b) What are the requirements to discharge residues of Noxious Substance from ship (5)
- 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) (a) Name any three devices for shipboard garbage processing(3M)
(b)What are the contents of Garbage Management Plan (4M)
(c) What are the special areas for Garbage disposal(3M)
- 21) Enumerate with short description the areas that MARPOL

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Annexure VI covers (10M)

22) Write Short notes on

- (a) Ballast water exchange system (3M)
- (b) IMO Guide line on Ship recycling (4M)
- (c) Anti fouling Paint Pollution (3M)

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