

**Indian Maritime University**  
**End Semester Examinations- JUNE 2023**  
**BSc(NS) – UG21T4606**

**MARINE ENVIRONMENTAL PROTECTION**

**DATE : 05.06.2023**

**Total Marks: 70**

**TIME: 3 HRS**

**Pass Marks: 35**

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*Part A – (10 X 01 Mark)*

Choose the most correct Answer ( Question 1-5)

(1) Which of the ship accident was considered as INITIAL catalyst for development of MARPOL-73 convention?

(A) Torrey Canyon (B) Titanic (C) Amoco Cadiz (D) Exxon Valdez

(2) Which of the following is defined as oil as per MARPOL Annex I?

(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, when 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

**Fill in the blanks / True False (Question No 6-10)**

(6) What does SEEMP stands for \_\_\_\_\_.

(7) In Anti Fouling system for ships convention, TBT stands for \_\_\_\_\_.

(8) Glass can be disposed in to sea in compliance with Marpol Annex V.

(9) Vapour Emission Control regulations are applicable to \_\_\_\_\_ Ships?

(10) \_\_\_\_\_ is 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 questions (02 x 5 Marks)

11) Write the names of any four tanks/connections /equipment mentioned in IOPP certificate?

12. Expand the following: -

- a) ODMCS
- b) NPDES
- c) SOPEP
- d) ODS

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 Bunker Delivery Note (BDN)?

### Part C --Answer Any 5 (05 X 10 Marks)=50 MARKS

16) What are the requirements for a container vessel to comply with MARPOL Annexure I (10)

17)

(a) What are the categorization of Noxious Liquid substances as per MARPOL Annexure II (5)

(b) What are the requirements to discharge residues of Noxious Substance from ship ? (5)

18)

(a) What is marine pollutant as per Marpol Annex -III (IMDG code) (5)

(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. (5)

(b) What are the requirements for obtaining ISPP certificate (Marpol Annex IV)? (5)

20)

(a) Name any three devices for shipboard garbage processing. (3)

(b) What are the contents of Garbage Management Plan (4)

(c) What are the special areas for Garbage disposal (3)

21) Enumerate with short description the factors that MARPOL Annexure VI covers. (10)

22)

(a) Write Short note on Ballast water exchange system. (3)

(b) What are the hazards associated with shipbreaking? (4)

(c) Write Short note on Anti fouling (TBT) Paint Pollution. (3)

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