

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2026
Programme Name: B Sc (NS)
Semester: IV
Subject Code: UG21T6402

Subject Name: MARINE POLLUTION PREVENTION

Date: 04.06.2026	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. Criteria for carrying SOPEP on board a ship;
 - a) All ships of 500 GT and above and oil tankers more than 150 GT
 - b) All ships of 400 GT and above and oil tankers more than 150 GT
 - c) All ships of 150 GT and above and oil tankers more than 400 GT
 - d) All ships of 400 GT and above and oil tankers of 100 GT and above
2. As per the discharge criteria under Annex I, the instantaneous rate of discharge of oil from the cargo areas of an oil tanker should not be more than _____ per nautical mile
3. As per Annex II, Category Z cargo residues when discharged into the sea poses;
 - a) No hazard
 - b) Major hazard
 - c) Hazard
 - d) Minor hazard

4. As per Annex V, an entry is required to be made in the Garbage Record Book Part II whenever a discharge operation with respect to _____ occurs.

5. P & A Manual is mandatory for ships carrying _____ cargoes in bulk.

- a) Category X
- b) NLS
- c) Category Z
- d) Other substances

6. Vessel Response Plans are approved by _____

7. As per Annex IV, Discharge of Sewage can be carried out while the ship is proceeding at _____.

- a) Not less than 5 knots
- b) 7 knots
- c) Not less than 3 knots
- d) 4 knots and above

8. The use of organotins and cybutryne compounds in the _____ paints used on ships is prohibited.

9. Under MARPOL Annex V, Placards are mandatory for

- a) Ships of > 400 GT
- b) Ships of >150 GT
- c) Ships of more than 12 metres in length.
- d) Ships of < 400 GT

10. A specialized small diameter pipeline used to efficiently strip cargo pumps & pipelines after cargo discharge operations, thereby minimizing cargo residue retention, as required under Annex I is described as _____

SECTION B

Answer all five questions (5 x 2marks = 10 marks)

11. What is SMPEP?

12. Describe in brief the purpose and contents of a Garbage Management Plan.

13. What is VOCs?

14. Enumerate any four Special Areas under Annex I of MARPOL 73/78.

15. What is the criteria for discharging Sewage?

Section C

Answer five questions out of Seven (5 x10 marks = 50 marks)

16. Explain Emission Control Area and give the names of Emission Control areas as per Annex VI. State the requirements for ships for the limit of sulphur content in ship's fuel outside Emission Control area?

17. Explain the categories of Noxious Liquid Substances.

18. State different categories as per Annex V and which are the categories when discharged to reception facilities/sea to be entered in Garbage Record Book Part I and Part II

19. Describe the provisions regarding the discharge of Sewage in to a special area (Baltic Sea) for passenger ships as per Annex IV.

20. Explain discharge criteria for Category X, Y, Z and Other Substances as per Annex II?

21. What is a Bunker Delivery Note? What details or information is available in a Bunker Delivery Note?

22. What is the Antifouling Convention of ships and what document should accompany the International Anti-Fouling Certificate?
