
Indian Maritime University
(A Central University, Govt of India)

Mar/Apr/26 SE

Programme Name: B Sc {NS}

Semester: V

Subject Code: UG21T5505

Subject Name: Marine Environmental Protection

Date: 23.03.2026

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. SOPEP is mandatory for all ships of _____ GT and above and Oil Tankers of _____ GT .
 - a) 500 GT and above and oil tankers more than 150 GT
 - b) 400 GT and above and oil tankers more than 150 GT
 - c) 150 GT and above and oil tankers more than 400 GT
 - d) 400 GT and above and oil tankers of 100 GT and above
 2. As per annex I oily mixtures may be discharged into the sea outside special Area, when the ship is;
 - a) More than 50 Nm
 - b) More than 25 NM
 - c) More than 15 NM
 - d) More than 12 NM
 3. Commencement of Loading/Discharging of cargo to be entered in the _____
 - a) Oil Record Book Part II. (b) Oil Record Book Part I. (C) Cargo Record Book
 - d) Port Log Book.
 4. As per the discharge criteria for Oil Tankers, the Instantaneous Rate of Discharge should not exceed ;
 - a) 30 ltrs/NM
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- b) 20 ltrs/NM
- c) 40 ltrs/NM
- d) 25 ltrs/NM

5. Harmful substances are those substances which are identified as marine pollutants as per;
- a) IMDG Code
 - b) IBC Code
 - c) Blu Code
 - d) LSA Code
6. MARPOL Convention came into force _____.
- a) On 02nd September 1978
 - b) On 03rd December 1983
 - c) On 02nd October 1983
 - d) On 01st November 1983
7. As per Annex II, Category Y cargo residues when discharged into the sea poses;
- a) No hazard
 - b) Major hazard
 - c) Hazard
 - d) Minor hazard
8. Special area under Annex II
- a) Red Sea
 - b) Gulf area
 - c) Antarctica Area
 - d) Mediterranean Sea
9. As per Annex IV, Discharge of Sewage can be carried out while the ship is proceeding at _____ kts.
- a) Not less than 5 knots
 - b) 7 knots
 - c) Not less than 3 knots
 - d) Not less than 4 knots
10. This is one of the MOU under Port State Control
- a) Red Sea MOU
 - b) North American MOU
 - c) Vina Del Mar
 - d) South African MOU

Section B

(All questions to be answered. Five Questions of 02 Marks each)

11. Define Garbage?

12. Under what circumstances harmful substances under Annex III can be Jettisoned?

13. What is the criteria for ships to carry a Garbage Management Plan?

14. What are the Ozone Depleting Substances?

15. What are the certificates issued under MARPOL Annex VI?

Section C

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

Section C

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

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?

(10 marks)

17. 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

(10 marks)

18. Explain the following;

a) Volatile Organic Compounds (VOC) 3 Mark

b) Cargo Record Book 3 Mark

c) NO_x Technical Code 4 Mark

(10 marks)

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

(10 marks)

20. What is the purpose of Ballast water Management and state the three methods of Ballast water Management?

(10 marks)

21. What is the definition of sewage and explain the discharge criteria of sewage as per Annex IV?

(10 marks)

22. What are the general requirements for carrying Dangerous goods as
as per Annex III and explain Marking & Labelling?

(10 marks)

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