

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – June 2025
Programme Name: DNS
Semester: II
Subject Code: UD11T6203
Subject Name: Marine Pollution Prevention

Date: 03.06.2025

Max Marks: 70

Duration: 03 Hrs

Pass Marks: 35

General Instructions

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

Section A

**(Answer all questions. Ten MCQs/Fill in the Blanks of 01 Mark each –
Choose the correct answer as applicable)**

1. _____ Certificate is issued under MARPOL Annex I.
2. PPM Means
 - a) Parts per million when measured by volume
 - b) Parts per million
 - c) Parts per million by weight
 - d) None of above
3. Select the category for which discharge restrictions are not applicable
 - a) Category X
 - b) Category Y
 - c) Category Z
 - d) Other Substances
4. IMDG stands for _____
5. MARPOL Annex V regulates the disposal of:
 - a) Sewage
 - b) Harmful Substances
 - c) Garbage
 - d) NLS
6. MARPOL Annex IV deals with _____ Pollution from ships.
7. _____ is an Ozone Depleting Substance as per Marpol Annex VI.
 - a) Chlorofluorocarbons
 - b) Halon
 - c) Hydrochlorofluorocarbons
 - d) All of the above
8. The Ballast Water Management Convention was adopted to prevent:
 - a) Oil spills
 - b) Spread of invasive aquatic species
 - c) Sewage pollution
 - d) Air pollution
9. _____ Manual is required for Annex II cargoes.
10. Underwater hull part of the ship is painted with _____ paint.

Section B

Answer all the questions (Five Questions of 02 Marks each)

11. Define Special Area
12. List entries to be made in Oil Record Book Part II (Any four)
13. Explain in brief about P and A Manual.
14. What is Garbage management Plan and why is it required?
15. What are Emission Control Areas as per Annex VI. Why they are important?

Section C

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

- 16.a) Write the names of each annex of Marpol 73/78 along with their dates of entry into force. **(5 Marks)**
b) State the discharge Criteria for Oil and Oily mixture from Cargo spaces of an Oil Tanker. **(5 Marks)**
- 17.a) State the entries to be made in Garbage Record Book Part I **(5 Marks)**
b) State the discharge criteria for Sewage as per Annex IV **(5 Marks)**
18. Explain the regulations under MARPOL Annex IV for Sewage Discharge and explain how ships comply with them. **(10 Marks)**
- 19.a) Describe the impact of Air Pollution from Ships and how the ships can comply with the low sulphur requirement of fuels. **(5 Marks)**
b) What is Bunker Delivery Note. Explain entries in the Bunker Delivery Note. **(5 Marks)**
- 20.a) Explain the categories of noxious liquid chemicals. **(7 Marks)**
b) List of items to be recorded in Cargo Record Book. **(3 Marks)**
21. a) State the requirements for marking and labelling packages, freight containers, tanks and wagons to be as per IMDG code. **(5 Marks)**
b) Describe the documentation relating to the carriage of harmful substances by sea. **(5 Marks)**
- 22.a) What is D-2 Ballast water management standard & List the main types of ballast water treatment technologies available in the market. **(7 Marks)**
b) Draw diagram of typical two stage ballast water treatment system **(3 Marks)**