

Indian Maritime University
(A Central University, Govt. of India)
End Semester Examinations – December 2024
Programme Name: MBA (ITL/PSM)

Semester: 3

Subject Code: PG22/21E3303

Subject Name: HAZARDOUS CARGO AND IMDG CODE

Date: 18.12.2024

Max Marks: 60

Duration: 03 Hrs

Pass Marks: 30

Section A

1 x10

1. International Maritime Dangerous Goods Code is accepted by the Maritime Safety Committee as an international guideline:
 - a. For transportation of dangerous goods by all modes of transport
 - b. For transportation of Dangerous goods by air
 - c. For transportation of dangerous goods by road
 - d. For transportation of dangerous goods by sea
2. IBC in IMDG code refers to
 - a. Intermediate Bulk Container
 - b. International Bulk Container
 - c. International Bulk Cargo
 - d. International Bulk Carrier
3. First General rules for the IMDG code was adopted in
 - a. 1967
 - b. 1969
 - c. 1958
 - d. 2004
4. The minimum dimension of labels that needs to be on a IMDG package should be
 - a. 100 mm x 100 mm
 - b. 50 mm x 50 mm
 - c. 200 mm x 200 mm
 - d. 150 mm x 150 mm
5. When an IMDG cargo is packed in Group I the cargo has properties
 - a. Great Danger
 - b. Medium Danger
 - c. Low Danger
 - d. No Danger
6. The UN Number of a hazardous Cargo consists of Digits
 - a. 4
 - b. 3
 - c. 2
 - d. No fixed number of digits
7. A cargo has its class marked as 2.3 its class is
 - a. Flammable Gas
 - b. Toxic Gas
 - c. Flammable solids

- d. Flammable liquid
- 8. Present Edition of IMDG Code published in
 - a. 2021
 - b. 2023
 - c. 2022
 - d. None of the above
- 9. What is the proper shipping name of Asbestos Actinolite?
 - a. Actinolite, Asbestos
 - b. Amphibole, Asbestos
 - c. Asbestos, Amphibole
 - d. Asbestos
- 10. For lithium-metal battery to be transported under special provision SP 188 the aggregate lithium content must not be more than
 - a. 1 gram
 - b. 2 grams
 - c. 20 grams
 - d. 2.5 grams

Section B

Answer all Questions (5 x 2)

- 11. What are the goals of the IMDG code?
- 12. Define Hazardous Materials with examples
- 13. Which is the present edition of Dangerous Goods Regulations(DGR) and how does it apply to?
- 14. Which Class of IMDG cargo does these labels indicate



- 15. You have 2 different classes of DG cargo and as per the IMDG segregation table the cargoes are to be separated from, explain what does separate from in Segregation of IMDG Cargoes.

Section C

Answer any five questions (5 x 8)

16. a. Explain the purpose and scope of the IMDG Code (4)
b. Elaborate the importance of IMDG in global the maritime safety and trade (4)
17. List the various classes as per IMDG Code
18. Evaluate the challenges and potential improvements in implementing IMDG code in Maritime Industry.
19. a. In the IMDG code what is Limited and Excepted quantity and where can this information be found. In the attached abstract from IMDG code provide the limited quantity for Substance with UN no 1060 (4)

Part 3 - Dangerous Goods List

UN-number (1)	Proper Shipping Name (PSN) (2)	Class or division (3)	Subsidiary risk(s) (4)	Packing group (5)	Special provisions (6)	Limited and excepted quantity provisions		Packing		IBC		Portable tanks and bulk containers		Emergency Schedule (15)	Stowage and segregation		Properties and observations (17)
						Limited quantities (7a)	Excepted quantities (7b)	Instructions (8)	Provisions (9)	Instructions (10)	Provisions (11)	Tank instr. (12)	Provisions (13)		Stowage and handling (16a)	Segregation (16b)	
1090	ACETONE (ACETONE SOLUTIONS)	3	-	II	-	11	E2	P001	-	IBC02	-	T4	TP1	F-E, S-D	Cat. E.		Colourless, clear liquid, w characteristic mint-like od Miscible with water. Flashpoint: -20°C to -18°C Explosive limits: 2.5% to 1
1091	ACETONE OILS	3	-	II	-	11	E2	P001	-	IBC02	-	T4	TP1 TP8	F-E, S-D	Cat. B.		Light yellow to brownish, liquids. Immiscible with w Flashpoint: -4°C to 8°C c.i

- b. In the Emergency column schedule what is indicated for the substance with UN number 1060 (4)
- 20.a. What are the documents to be provided by the carrier for transportation of dangerous cargo (2)
b. Expand MSDS and what are the various information which need to be provided in the MSDS (6)
- 21 a. When is a IMDG Placard used and what are its dimensions. In an ISO container where are the placards displayed on the container (3)
b. With a free hand drawing draw the images depicted in 3 IMDG class placards and identify them (5)
22. a. You are envisaging to accept a DG cargo container for shipment by sea, what are the documentation and operational steps you are required to follow (4)
b. If you were to see this below mentioned Hazard warning label what would you conclude from the cargo contained in that package (4)

