

Indian Maritime University
(A Central University, Govt of India)
End Semester Examinations – December 2022
Programme Name: B Sc (NS)
Semester: V
Subject Code: UG21T4504

Subject Name: Specialized Cargo Handling & Stowage

Date: 15.12.2022

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 01 Mark each – Choose the correct answer.

1. Stowage of containers is based on :
 - A) Bay, Row & Tier.
 - B) Column, Tier & Row
 - C) Ullage , Sounding & Tier
 - D) None of the above.
2. Reefer cargoes are classified into ___ categories.
 - A)4
 - B)3
 - C)2
 - D)None of the above
3. Guidelines for the prevention of pollution by Oil is stated in which of the below mentioned Annexes of MARPOL.
 - A)Annex II
 - B)Annex III
 - C)Annex I
 - D)Annex V
4. Personal gas meters onboard normally state the concentration/presence of below gases. Select the best option.
 - A)HC,O2,CO2,CO
 - B)HC,O2,H2S,CO
 - C)HC,CO2,H2S,SO2
 - D)None of the above.

5. Tank scope works in any condition of the tank that is Inerted and Gas Free.
A)True B)False
6. The most important aspect during loading of Heavy lift with the ship's own lifting gear is _____. Select the best option.
A)Location and change in position of G (Centre of Gravity)
B)SWL of Lifting Gear
C)Ballast distribution.
D)All of the above.
- 7.The various types of chemical tankers are :-
A)Type A, Type B, Type C
B)X,Y,Z & OS
C)Type 1, Type 2, Type 3
D)None of the above.
- 8.The types of cargo carried by a Chemical tanker as per Annex II are :-
A)Type A, Type B, Type C
B)X,Y,Z & OS
C)Type 1, Type 2, Type 3
D)None of the above.
9. What does MARVS stand for ?
A) Maximum Allowable Reserve Vacuum Setting
B) Minimum Allowable Reserve Volume Setting
C) Maximum Allowable Relief Valve Setting
D) None of the Above.
- 10.How many types of LNG ships are there.
A)3
B)2
C)4
D)None of the Above.

Section B

Five Questions of 02 Marks each. SHORT ANSWER TYPE QUESTIONS

- 11.What do you understand by "Transverse Racking Test Force"on a container ship.
12.State the types of RO-RO ships.(At least 5)
13.State the types of Offshore vessel. (At least 4)
14.State the 3 types of Reefer cargoes.
15.Define Spike Crude Oil.

Section C

Answer five out of seven questions. (10
Marks Each)

16. A) Define purging and its purpose. (4 Marks)
B) What are the different ways of doing purging. Describe with the help of

- diagram. (6 Marks)
17. A) State the types of LNG Ships. (3 marks)
B) Describe the different types of LNG ships. (7 Marks)
 18. A) What is the purpose of CSC Plate on a container. (4 Marks)
B) What are the contents of CSC Plate. (6 Marks)
 19. A) State the different types of Chemical cargoes. (4marks)
B) State the difference between these types of chemical cargoes.(6 marks)
 20. Name the various parts of Inert Gas System. Describe any 4 parts. (10 marks)
 21. What is COW, its purpose. Requirements, advantages and Precautions of/for COW. (10 Marks)
 22. Give short descriptions of any 5 type of offshore vessel. (10 marks)

