

Candidate's Name:

***Ports and shipping Organization
Examination and Certification Directorate
Exam cycle:***

**Subject: Cargo handling & Stowage
Rank: Chief Mate (GT>3000)**

**Date:
Time allowed: 2.5 Hrs**

QNo: 1

Before loading cargo of wheat in a 5 holds of a modern bulk carrier in the port of Vancouver during the holds inspection a number of insects found by surveyor & decided to fumigate the holds / accommodation.

Explain your course of action prior to and after completion of fumigation operation.
(15 M)

QNo: 2

With reference to SOLAS chapter VII

As a prudent CH/OFF what will be your considerations for loading dangerous goods in a general cargo vessel in respect of following

After receiving a booking list. (10 M)

During loading & whilst in passage to discharge port. (15 M)

QNo: 3

With respect to tankers, describe

a) The advantage of segregation tanks (8 M)

b) Load on top procedure (12 M)

QNo: 4

As CH/OFF of a 43000MT DWT bulk carrier, you are instructed to load 38000MT $\pm 5\%$ cargo of coal in Bulk, explain.

a) The procedures before commencement of loading operation. (10M)

b) The procedures during loading & passage to discharge port. (15M)

QNo: 5

Explain how ship's cargo handling gears are periodically inspected, maintained and organized, during your stay on a general cargo vessel for a period of six months.
(15M)

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Q.1) With the aid of sketch/es describe how a Bay Plan is devised? (20 Marks)

Q.2) Describe in details the procedure for crude oil washing? (20 Marks)

Q.3) Describe in details the contents of " BC code"? (20 Marks)

Q.4) Describe the following:

a) Enhanced survey program. (10 Marks)

b) Precaution when fumigating cargo holds. (10 Marks)

Q.5) Explain how would you plan, load, carry, and keep the cargo of IMDG class?

(20 Marks)

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Q.1) Briefly describe following in relation to IMDG code:

- a) Segregation table of dangerous cargos.
 - b) EmS No. and MFAG No.
 - c) class 4 cargoes
 - d) Marking of cargo.
- (5 marks each)

Q.2) A general cargo vessel is to load 5 pieces of heavy lifts in tween deck. Describe in detail the precautions and procedure for loading the above mentioned cargo considering the lower holds are already full in previous ports.

(20 marks)

Q.3) a) State the different hazards associated with carriage of solid bulk cargo.

(10 marks)

b) What are the applicable rules and what publication you can refer for carriage of solid bulk cargo?

(5 marks)

c) Define moisture migration and flow moisture point.

(5 marks)

Q.4) a) Describe the procedure and requirement for crude oil washing of a cargo tank in an oil tanker and explain how risk of fire, explosion is eliminated.

(12 marks)

b) Define the terms "too lean and too rich".

(8 marks)

Q.5) a) Describe the procedure of signing Mate's receipt by chief officer and the precautions should be taken before signing it.

(10 marks)

b) Briefly explain the use of Cargo manifest and Tally sheets

(10 marks)

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Q.1)

Prior loading cargo of wheat in on a modern bulk carrier in the port of Vancouver. During the holds inspection a number of insects found by surveyor and it was decided to fumigate the holds / accommodation.

Explain your course of action before to and after completion of fumigation operation. (15 M)

Q.2)

With reference to SOLAS chapter VII

what will be the considerations for loading dangerous goods in a general cargo vessel in respect to following

- a) After receiving a booking list. (10 M)
- b) During loading and whilst in passage to discharge port. (15 M)

Q.3)

With respect to oil tankers, describe

- a) The advantage of segregation tanks (8 M)
- c) Load on top procedure (12 M)
- d)

Q.4)

As CH/OFF of a 43000MT DWT bulk carrier , you are instructed to load 38000MT $\pm 5\%$ cargo of coal in Bulk , explain.

- a) The procedures before commencement of loading operation. (10M)
- b) The procedures during loading& passage to discharge port. (15M)

Q.5)

Explain how ship's cargo handling gears are periodically inspected, maintained and organized , during your stay on a general cargo vessel for a period of six months.

(15M)