

GOVERNMENT OF INDIA

Date: - 13th July-2023

Paper 1

FIRST MATE OF A FOREIGN GOING SHIP (PHASE – I) FUNCTION: CARGO HANDLING AND STOWAGE (Management Level)

TIME: 3 Hours

PASS MARKS: 120

MAX. MARKS: 200

Notes:

1. Questions 1, 2 and 3 in part A are compulsory. Attempt any five questions from Part B of the remaining seven questions.
2. All questions carry equal marks i.e. 25 Marks each.

Q.1 M.V. 'Hindship' is at a draft of F 9.20 m, A 9.30 m, mid 9.30 m, in water of RD 1.005. The draft marks are 2 m aft of FP, 1.5 m aft of midships and 3 m forward of AP. She is to shift to a berth where a depth of water is 6.5 m. Vessel is required to have 0.5m of under keel clearance. Calculate: the minimum quantity of cargo to discharge if after discharging that cargo she is expected to sag by 10 cms.

Q.2 A box shaped cargo oil tank 30m x 20 m x 15 m is to be loaded with crude oil at the temperature of 24°C. Density at 15°C in vacuum = 0.8550 kg/litre. If 4% of the volume of the tank is to be left for expansion, calculate the quantity of oil loaded and the final ullage by the measuring tape at the ullage port located 2m forward of aft bulkhead, 1m above tank top and 3 m to the port of center line of the tank. LBP = 240M, trim = 3m by astern. List = $\frac{1}{2} \times (S)$.

Q.3 What all are the procedure for testing derricks and cranes? Describe with an example?

Q.4 Explain the complete procedure of heating the cargo on oil tankers covering the commercial / safety / operational aspects of the system.

Q.5 Explain the procedure of cargo operation i.e. loading and discharging on LNG? What is re-liquefaction of gas?

Q.6 a) What is the purpose of Marking and labelling as per IMDG code?

b) Enumerate the precautions you will observe while loading / discharging dangerous cargo.

Q.7 As per IMSBC code what are the precautions to be observed while loading coal cargoes in bulk?

Q.8 What are the dangers associated with shipment of grain cargoes. What are the different methods available to reduce shifting of cargoes?

Q.9 a) As a chief officer what preparation you will take prior loading vehicle on a RO-RO ship?

b) What is CSC and Customer plate on a container and what all details does it carry? Explain.

Q.10 How will you prepare a refer space for loading chilled cargo. Describe the importance of controlling atmosphere in cargo spaces, how it is achieved.

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