



**UNIVERSITI KUALA LUMPUR**  
**Malaysian Institute of Marine Engineering Technology**

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**FINAL EXAMINATION**  
**MARCH 2025 SEMESTER SESSION**

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**SUBJECT CODE** : LOD10903 / LOD10203  
**SUBJECT TITLE** : INTRODUCTION TO MARITIME OPERATIONS  
**PROGRAMME NAME** : DIPLOMA IN MARITIME MANAGEMENT  
(FOR MPU: PROGRAMME LEVEL)  
**TIME / DURATION** : 09.00 AM - 12.00 PM  
(3 HOURS)  
**DATE** : 23 JUNE 2025

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**INSTRUCTIONS TO CANDIDATES**

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1. Please read **CAREFULLY** the instructions given in the question paper.
2. This question paper has information printed on both sides of the paper.
3. This question paper consists of **TWO (2) sections**; Section A and Section B.
4. Answer **ALL** questions in Section A and **TWO (2)** questions in Section B.
5. Please write your answers in the answer booklet provided.
6. Answer **ALL** questions in English language **ONLY**.

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**THERE ARE 4 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.**

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**SECTION A (TOTAL: 60 MARKS)**

**INSTRUCTION: ANSWER ALL THREE (3) QUESTIONS**

**Please use the answer booklet provided**

**QUESTION 1**

Getting to know marine terminology is a must for the individual whose about to step inside maritime industry. Even for the beginner, it is a must to know and understand; common maritime terms related to what you will study in the afterwards. Most of these terms are related to vessel position, direction of movement and their parts.

a) Label the part of ship in figure 1 below.

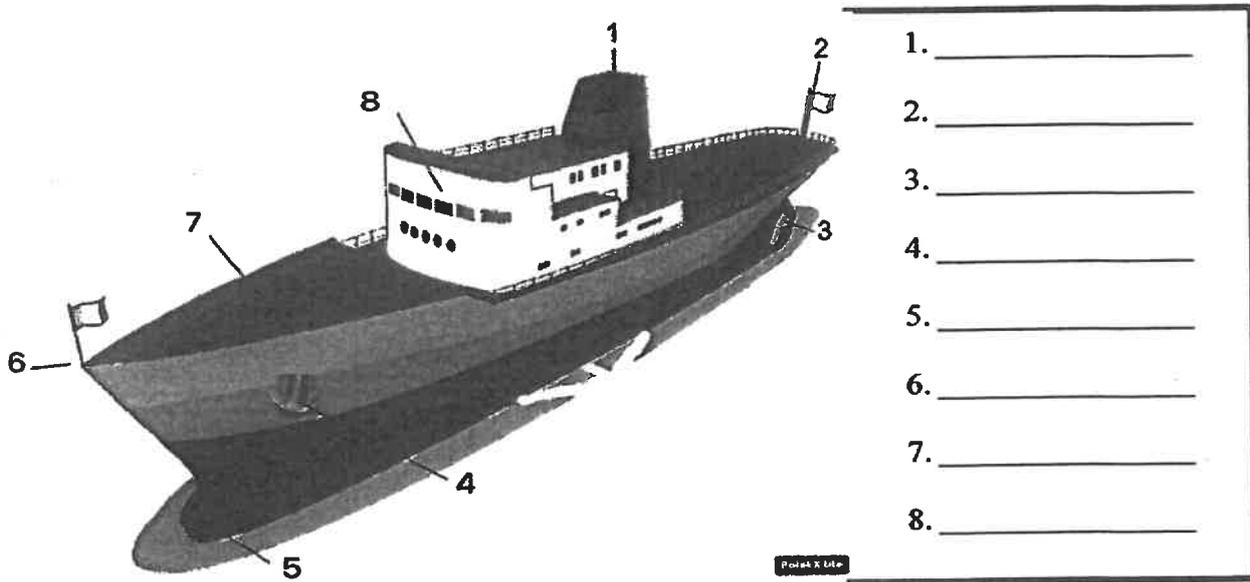


Figure 1 : Parts of Ship

(8 marks)

b) Describe each part of ship as answered in question 1 (a).

(8 marks)

c) State TWO (2) responsibilities of the stevedores.

(4 marks)

**QUESTION 2**

In the current climate, it is very important for us to reflect and highlight how important the maritime industry is for our country and the rest of the world. Maritime is most everything connected to the sea or waterways throughout the world, especially in relation to navigation, shipping, and marine engineering. The industry has a direct impact on much of our everyday lives. Discuss FIVE (5) main types of maritime industries sectors as listed below.

- a) Shipping (4 marks)
- b) Ports & Terminals (4 marks)
- c) Fisheries (4 marks)
- d) Ship Building & Repair (4 marks)
- e) Offshore Oil & Gas (4 marks)

**QUESTION 3**

Sea transport was the main vehicle of international commerce for centuries and is still a popular mode of transportation due to factors such as high load capacity, low cost, and reliability in bad weather. Sea freight transport is also a preferred solution for shipments across long distances. There were various maritime cargo types involved in sea transportation process.

- a) Describe FIVE (5) types of maritime cargoes. (10 marks)
- b) Explain TWO (2) of main principle of port. (4 marks)
- c) Classify THREE (3) types of port. (6 marks)

**SECTION B (TOTAL: 40 MARKS)**

**INSTRUCTION: ANSWER TWO (2) QUESTIONS ONLY**

**Please use the answer booklet provided**

**QUESTION 4**

The function of ships is to bring cargoes and passenger. The truth is that most ships sailing our oceans are purposed for international freight transport. But if all these ships carry freight, in which aspects are they different? Nothing more than the specificities of the freight they can carry. In other words, each type of cargo requires different conditions and a specialized ocean transport mode. This leads us to review the types of ships in existence, based on the types of loads they transport. In a table, differentiate between Container Ship and Passenger Ship.

**(20 marks)**

**QUESTION 5**

- a) The loading & unloading process of bulk carrier need assistance by the equipment/machineries either onboard ship or from the port facilities. Explain detailed information on Ship-to-Shore (STS) cranes.

**(10 marks)**

- b) In today's fast-paced world, the speed and capacity of ships have increased. Therefore, the needs of high technology in machineries equipment to smoothen the operations also increased. Discuss FIVE (5) cranes found in port or terminal or on-board ship.

**(10 marks)**

**QUESTION 6**

Something as common as adding salt to our food, drinking a glass of milk or filling up our car with fuel would be an impossible task if it were not for the transport of thousands of tonnes of bulk goods day after day the length and breadth of the world. An endless number of commodities are transported day after day thanks to this type of cargo, The cargoes carried by maritime transportation come into several categories, each requiring the usage of specialized ships. The two main categories of cargoes are general and bulk cargo.

- a) Clarify the specification of bulk carrier.

(10 marks)

- b) Bulk Carrier has been classified in SEVEN (7) size categories. Explain FIVE (5) classification of Bulk Carrier.

(10 marks)

**END OF EXAMINATION PAPER**