



UNIVERSITI KUALA LUMPUR
Malaysian Institute of Marine Engineering Technology

FINAL EXAMINATION
OCTOBER 2025 SEMESTER SESSION

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 : 27 JANUARY 2026

INSTRUCTIONS TO CANDIDATES

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. For Section B, answer **THREE (3)** questions with at least **ONE (1)** question from question 4 or question 5.
5. Please write your answers in the answer booklet provided.
6. Answer **ALL** questions in English language **ONLY**.

THERE ARE 4 PAGES OF QUESTIONS, INCLUDING THIS PAGE.

SECTION A (Total: 60 marks)

INSTRUCTION: Answer ALL questions.
Please use the answer booklet provided.

Question 1

- (a) A ship's structure consists of multiple interconnected components that ensure stability and strength. Familiarity with these elements is essential for both communication and maintenance on board. Identify **FIVE (5)** main terms related to ship structure used in maritime operations.
(10 marks)
- (b) Maritime measurement systems determine vessel capacity and safety limits. These parameters are internationally recognized for operational consistency. Explain **FIVE (5)** key measurement terms related to ship tonnage and draft.
(10 marks)

Question 2

- (a) The International Maritime Organization (IMO) creates conventions for standardizing shipping practices. These conventions govern maritime safety, pollution prevention, and crew competency. Identify **FIVE (5)** major international conventions established by the IMO.
(10 marks)
- (b) Ship ownership and management involve distinct legal responsibilities and documentation. Understanding these terms ensures proper compliance with maritime law. Describe **FIVE (5)** legal terminologies used in ship ownership and registration.
(10 marks)

Question 3

- (a) The deck area of a ship contains various operational zones critical for daily activities. Familiarity with these spaces enhances crew efficiency and safety awareness. Explain **FIVE (5)** main operational areas found onboard a typical vessel.

(10 marks)

- (b) The maritime environment is regulated by specific pollution prevention standards. These standards ensure the protection of marine ecosystems from operational waste. Define **FIVE (5)** environmental control terms applied in maritime operations.

(10 marks)

SECTION B (Total: 40 marks)

INSTRUCTION: Answer only TWO question ONLY.

Please use the answer booklet provided.

Question 4

- (a) Ships are classified according to the cargo they carry and the services they provide. Each type has specific design features to suit its operational purpose. Examine **FIVE (5)** major categories of commercial vessels used in maritime transport.

(10 marks)

- (b) Bulk carriers are specialized for carrying unpackaged dry materials. Their structural design ensures the safe handling of large-volume cargo. Assess **FIVE (5)** main characteristics of bulk carriers.

(10 marks)

Question 5

- (a) Tanker ships play a vital role in transporting liquid cargo across long distances. They are engineered for safety, efficiency, and pollution control. Explain **FIVE (5)** specifications that distinguish oil or chemical tankers from other ships.

(10 marks)

- (b) Container ships dominate modern maritime logistics through standardized cargo units. Their design facilitates rapid loading, discharging, and global distribution. Discuss **FIVE (5)** designs of container ships.

(10 marks)

Question 6

- (a) Ports use a range of specialized equipment to handle different cargo types. Such equipment enhances operational speed and minimizes manual labor. State **FIVE (5)** types of port handling machinery used in maritime terminals.

(10 marks)

- (b) Multipurpose ships are versatile and designed to transport multiple cargo types. Their adaptability makes them suitable for diverse trade routes. Discuss **FIVE (5)** operational advantages of multipurpose vessels.

(10 marks)

END OF EXAMINATION PAPER