



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

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**FINAL EXAMINATION**  
**OCTOBER 2025 SEMESTER SESSION**

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<b>SUBJECT CODE</b>	<b>: LOB10803 / LOB11403</b>
<b>SUBJECT TITLE</b>	<b>: FUNDAMENTAL OF MARITIME OPERATIONS</b>
<b>PROGRAMME NAME</b> (FOR MPU: PROGRAMME LEVEL)	<b>: BACHELOR IN MARITIME OPERATIONS (HONOURS)</b>
<b>TIME / DURATION</b>	<b>: 09.00 AM - 12.00 PM</b> <b>(3 HOURS)</b>
<b>DATE</b>	<b>: 28 JANUARY 2025</b>

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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 **ONE (1) section**; Section A.
4. Answer any **FOUR (4)** questions **ONLY**.
5. Please write your answers on this answer booklet provided.
6. Answer **ALL** questions in English language **ONLY**.

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**THERE ARE 5 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.**

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**SECTION A (TOTAL: 100 MARKS)**

**INSTRUCTION: Answer any FOUR (4) questions ONLY.**

**Please use the answer booklet provided.**

**QUESTION 1**

Marine terminologies provide the standardised language used on board ships. These terms enable seafarers to communicate accurately about ship structures, positions, directions, and manouver. A proper understanding of such terms enhances operational coordination and navigational safety across all shipboard activities.

- (a) Discuss FIVE (5) major parts of a ship, using a labelled sketch to support your explanation. **(10 marks)**
  
- (b) Explain FIVE (5) common cargo transported by sea. **(5 marks)**
  
- (c) Describe THREE (3) common terms used in shipping or sea manoeuvring, including examples for each. **(6 marks)**
  
- (d) Explain FOUR (4) common positional or directional terms used on board ships, providing examples like port, starboard, forward, and aft. **(4 marks)**

**QUESTION 2**

The global shipping industry depends on a wide range of ship types, cargo categories, and competent ship crews who ensure safe and efficient operations. Each vessel is designed according to the nature of the cargo it transports, while ship crews carry out specialised duties to maintain seaworthiness, manage cargo operations, and support safe navigation. A clear understanding of these elements is essential for anyone involved in maritime transportation.

- (a) Discuss FIVE (5) major types of ships used in maritime transportation, supported with cargo examples where appropriate.

**(10 marks)**

- (b) Identify FIVE (5) typical categories of sea-transported cargo, including liquid bulk, dry bulk, breakbulk, containerised cargo, and project cargo.

**(5 marks)**

- (c) Explain THREE (3) categories of ship crew with examples for example

**(6 marks)**

- (d) Describe FOUR (4) factors that determine the matching of ship types to specific cargoes.

**(4 marks)**

**QUESTION 3**

The maritime industry consists of several interrelated sectors that support global trade and economic development. Understanding these sectors, the challenges they face, and their contributions to national and global economies are essential for analysing the broader maritime landscape.

(a) Discuss FIVE (5) major sectors within the maritime industry. **(10 marks)**

(b) Explain FIVE (5) ways the maritime industry contributes to national or global economic development. **(5 marks)**

(c) Explain THREE (3) current issues in the maritime industry with examples. **(6 marks)**

(d) Describe TWO (2) roles of logistics activities in supporting maritime operations with examples. **(4 marks)**

**QUESTION 4**

Port operations form a critical component of the maritime industry, enabling the movement of cargo, passengers, and vessels worldwide. Understanding port functions, port classifications, the regulatory authorities involved, and the layout of berths and terminals is essential for analysing how ports support global trade and supply chain efficiency.

- (a) Discuss FIVE (5) key functions or operations carried out in a port. **(10 marks)**
  
- (b) Explain FOUR (4) types of ports commonly found in the maritime sector. **(5 marks)**
  
- (c) Explain THREE (3) main roles of port authorities within the regulatory framework with examples. **(6 marks)**
  
- (d) Describe TWO (2) important components of berths that support port efficiency. **(4 marks)**

**QUESTION 5**

The offshore oil and gas industry involves complex operations at sea, supported by specialised offshore units, vessels, and supply bases. Understanding the stages of offshore activities and the functions of offshore support systems is essential for analysing how energy resources are explored, extracted, processed, and transported safely and efficiently.

(a) Discuss FIVE (5) major stages of offshore oil and gas activities. **(10 marks)**

(b) Explain FIVE (5) important functions of supply base operations that support offshore activities. **(5 marks)**

(c) Explain THREE (3) key elements in the introduction to offshore oil and gas with examples. **(6 marks)**

(d) Describe FOUR (4) types of offshore units or vessels used in the oil and gas industry. **(4 marks)**

**END OF FINAL EXAMINATION QUESTION**

