



**PENINSULA**  
**COLLEGE**  
GEORGETOWN DK266-03(P)



**UNIVERSITY OF**  
**PLYMOUTH**

## FINAL EXAMINATION

Semester	:	<b>SEPTEMBER 2025 SEMESTER</b>
Programme Name	:	<b>BA (HONOURS) MARITIME BUSINESS AND LOGISTICS 3+0 IN COLLABORATION WITH UNIVERSITY OF PLYMOUTH</b>
Course Code & Name	:	<b>MAL2039 MARITIME ECONOMICS AND INTERNATIONAL TRADE</b>
Duration	:	<b>3 HOURS</b>

### INSTRUCTIONS TO CANDIDATES:

1. Please read the instructions given in the question paper **CAREFULLY**.
2. The question paper consists of **FOUR (4)** questions.
3. Answer **ALL** questions in the question paper.
4. Answers to the questions are to be written into the examination booklet.
5. Electronic dictionaries, lecture notes, files or any unauthorised materials except writing equipment are strictly prohibited.

This question paper must be submitted along with all used and/or unused rough papers and/ or graph papers (if any). Candidates are **NOT ALLOWED** to take any examination paper(s) used or unused out of the examination hall.

### WARNING:

The Examination Board of Peninsula College Georgetown regards cheating as a very serious offence and will not hesitate to mete out the appropriate punitive actions according to the severity of the offence committed, and in accordance with the clauses stipulated in the Students' Handbook, up to and including expulsion from Peninsula College Georgetown.

*(This booklet contains 3 printed pages including this page)*

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE ALLOWED TO DO SO**

Answer **ALL** questions on the separate sheet provided.

**[100 marks]**

1. Port competition is shaped by several interrelated factors that determine a port's ability to attract shipping lines and cargo owners.

Discuss **FIVE (5)** key factors influencing port competition with reference to appropriate economic principles. In your answer, critically evaluate how these factors enhance or reduce a port's competitiveness in attracting shipping lines and cargo owners. Support your discussion with relevant examples.

(50 marks)

Total: [50 marks]

2. a) Suppose a vessel is travelling from Singapore to Rotterdam. Use the following information to complete the calculations.

You will spend 3 days loading in Singapore.

The distance from Singapore to Colombo is 1,940 miles, and it takes 6 days to complete this leg of the voyage. From Colombo to Suez is 3,900 miles, which will take 12.5 days to complete. It takes 1.5 days to transit the Suez Canal. The distance from Suez to Rotterdam is 3,220 miles, and it will require 10 days to complete this leg. Finally, unloading will take 5 days.

The ship requires 32 tons of fuel per day at sea and 1.5 tons per day at port. The running cost is \$3,800 per day for the voyage and there is a \$9,500 port cost at Singapore, a \$4,200 port cost at Colombo, a \$65,000 charge to transit the Suez Canal, and a \$12,000 charge at Rotterdam for unloading.

- i) How much fuel will the ship require for the entire voyage? (11 marks)
- ii) If fuel costs \$105 per ton, determine the total cost of this voyage. (19 marks)

- b) Suppose the CMA CGM Aurora, owned by CMA CGM, is preparing a voyage that will be 7 days at sea and 3 days in port. Bunkers cost \$95 per ton. The ship consumes 28 tons of bunker fuel per day at sea and 1.5 tons per day while in port.

- i) Calculate the total bunker fuel required and the fuel cost for the voyage. (13 marks)
- ii) You plan to store 60 tons of domestic and boiler water on the ship. If the ship has a capacity of 30,200 tons, determine the maximum cargo (in tons) that can be shipped on this voyage (7 marks)

Total: [50 marks]

3. You are a strategic planner at Petronas LNG Shipping Sdn. Bhd., responsible for transporting liquefied natural gas (LNG) from Bintulu, Sarawak to major buyers in Japan, South Korea, and China.

In light of recent changes in global energy demand and shifting trade routes, analyse **FIVE (5)** strategic approaches that Petronas LNG could adopt to strengthen Malaysia's position in the global LNG shipping market. (50 marks)

4. You are a trade manager at YTL Corporation Berhad, responsible for managing the export of construction machinery and materials to clients in East Asia and the Middle East.

In recent years, global shipping disruptions, port congestion, and geopolitical tensions have significantly affected trade logistics. Analyse **FIVE (5)** strategic considerations YTL should evaluate when selecting appropriate Incoterms 2020 for its international shipments.

(50 marks)

Total: [50 marks]

**- END OF QUESTIONS -**