



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

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**FINAL EXAMINATION**  
**JULY 2025 SEMESTER SESSION**

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| <b>SUBJECT CODE</b>                                 | <b>: LED31602</b>   |
| <b>SUBJECT TITLE</b>                                | <b>: MARITIME LEGISLATION</b>   |
| <b>PROGRAMME NAME</b><br>(FOR MPU: PROGRAMME LEVEL) | <b>: DIPLOMA OF ENGINEERING TECHNOLOGY IN<br/>ELECTRICAL AND ELECTRONICS (MARINE)</b> |
| <b>TIME / DURATION</b>                              | <b>: 9.00 AM - 12.00 PM<br/>(3 HOURS)</b>   |
| <b>DATE</b>   | <b>: 20 DECEMBER 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 **TWO (2)** sections; Section A and Section B.
  4. Answer **ALL** questions in Section A. For Section B, answer **TWO (2)** questions **ONLY**.
  5. Please write your answers on the answer booklet provided.
  6. Answer **ALL** questions in English language **ONLY**.
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**THERE ARE 5 PAGES OF QUESTIONS, INCLUDING THIS PAGE.**

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**SECTION A (Total: 60 marks)**

**INSTRUCTION: Answer ALL questions.**

**Please use the answer booklet provided.**

**Question 1**

With reference to the International Convention for the Prevention of Pollution from Ships (MARPOL), oil tankers and other ships are subjected to the requirements as stipulated in the Annex I.

- a) State **THREE (3)** procedures taken by the surveyors upon observing that the condition of the ship or its equipment is unsatisfactory.  
(6 mark)
- b) State **TWO (2)** conditions in which oily mixture can be discharged from oil tanker.  
(4 marks)
- c) There are some exceptions in which carriage of ballast can be carried in cargo tanks. Identify **THREE (3)** of its justifications.  
(6 marks)
- d) Explain **TWO (2)** requirements for such oil tankers to be equipped with crude oil washing (COW) systems.  
(4 marks)

**Question 2**

With reference to the International Convention for the Prevention of Pollution from Ships (MARPOL), Annex II regulates control of pollution by noxious liquid substances in bulk.

- a) With aid of a table, Identify the quantity of residue in the tank and associated piping allowed for category X, Y and Z substances with respect to the following construction dates:
- i. Between 1<sup>st</sup> July 1986 and 31<sup>st</sup> December 2006
  - ii. 1<sup>st</sup> January 2007 onwards
- (6 marks)
- b) Every certified ship under this Annex shall be provided with the Procedure and Arrangement (P&A) Manual. Describe any **FOUR (4)** activities involved in this manual.
- (8 marks)
- c) Cargo record book is also required for ships within this Annex. State any **THREE (3)** of its features.
- (6 marks)

**Question 3**

With reference to Anti Fouling Systems (AFS), the attachment of sea life to ship's hull slows down the ship and increases fuel consumption and therefore require proper protection.

- a) Describe **TWO (2)** main contents of this convention.
- (4 marks)
- b) State **TWO (2)** target areas carried out by the Parties to the convention in prohibiting or restrict the use of harmful AFS.
- (4 marks)
- c) Identify **TWO (2)** regulations enforced with respect to the application of organotin compounds in the anti-fouling systems.
- (4 marks)
- d) Explain **TWO (2)** requirements for each of the following types of ships:
- i. Ships of 400 gross tonnage and above
  - ii. Ships of 24 meters in length and above but less than 400 gross tonnages
- (8 marks)

**SECTION B (Total: 40 marks)**

**INSTRUCTION: Answer ONLY TWO (2) questions.**

**Please use the answer booklet provided.**

**Question 4**

With reference to the International Convention Relating to Intervention on the High Seas in Cases of Oil Pollution Casualties 1969 (INTERVENTION 1969), the convention deals with casualties involving pollution by oil and hazardous noxious substance (HNS).

- a) Determine **TWO (2)** fundamental rights owned by coastal states in response to the above convention. (4 marks)
- b) Outline **TWO (2)** obligations by the coastal states in dealing with measures taken towards marine casualty. (4 marks)
- c) Identify **FOUR (4)** entities consulted by Coastal State in conjunction with this convention. (8 marks)
- d) The convention also extends the provision to other hazardous substances. Highlight **TWO (2)** of its developments. (4 marks)

**Question 5**

With reference to Control of Discharge of Oil, the mission incorporates not only hull design and structural criteria, but also supported with filtering equipment and proper operational conduct.

- a) A Particularly Sea Sensitive Area (PSSA) requires rigorous care once endorsed by the IMO. Predict **THREE (3)** control measures to be enforced in this area.  
(6 marks)
- b) In dealing with pollution prevention in the event of collision for newbuild oil tankers as per Regulation 13F, identify **TWO (2)** of its requirements for ballast and cargo piping.  
(4 marks)
- c) In dealing with pollution prevention in the event of collision for existing oil tankers as per Regulation 13G, outline **THREE (3)** areas of inspection, survey, and condition reports.  
(6 marks)
- d) The oil water separator facilitates minimal release of oil upon discharge into the sea. Explain **TWO (2)** of its operation principles.  
(4 marks)

**Question 6**

With reference to Oil Record Books (ORB), merchant ships are required to carry onboard oil record books and correct entry of the book is important to cope with oil pollution inquiry.

- a) Determine **FIVE (5)** operations when the ORB must be completed.  
(10 marks)
- b) In dealing with ORB Part-1, outline any **FOUR (4)** entries required for ballasting of oil fuel tanks.  
(8 marks)
- c) Identify **ONE (1)** action taken in observing accidental discharge of oily mixture.  
(2 marks)

**END OF QUESTIONS**