



UNIVERSITI KUALA LUMPUR
Malaysian Institute of Marine Engineering Technology

FINAL EXAMINATION
JANUARY 2016 SESSION

SUBJECT CODE : LOB 10103
SUBJECT TITLE : FUNDAMENTAL OF MARITIME OPERATIONS
LEVEL : DEGREE
TIME / DURATION : 9.00 AM-12.00 PM (3 HOURS)
DATE : 20 MAY 2016

INSTRUCTIONS TO CANDIDATES

1. Please read the instructions given in the question paper **CAREFULLY**.
 2. This question paper is printed on both sides of the paper.
 3. Please write your answers on the answer booklet provided.
 4. Answer should be written in **blue** or **black ink** except for sketching, graphic and illustration.
 5. Answer **FOUR (4)** questions **ONLY**.
 6. Answer all questions in **English**.
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THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

INSTRUCTION: Answer FOUR (4) questions ONLY.

Please use the answer booklet provided.

QUESTION 1

Using specific words in maritime may help the personnel to understand the meaning and functions of certain parts of ships or items used during the operations.

a) Define the following maritime terminologies: (15 marks)

- i. Dockyard (3 marks)
- ii. Congestion (3 marks)
- iii. Bagged cargo (3 marks)
- iv. SART (3 marks)
- v. Salvage (3 marks)

b) Discuss TWO (2) main activities in maritime industry. (10 marks)

QUESTION 2

Logistics can be studied as an individual part of one company or as an integrated flow of materials through several companies. It is often necessary to have a wider perspective of the logistics system than within an individual company, since there is an interdependence between customers and suppliers, and synergies can be achieved if consideration is taken to the conditions and consequences for those outside the individual company.

a) Examine FOUR (4) logistics activities which contribute to the effectiveness and the efficiency of logistics management. (10 marks)

b) Classify FIVE (5) principal functions of seaport. (15 marks)

QUESTION 3

There are many forces acting on a ship and the act is largely determined by the purpose of the ship built for. Forces on a tugboat will be different from the forces acting on a container ship. The types of forces that occur in waves are the same for every ship but the magnitudes and points of action depend on the shape of the ship.

- a) Draw the impact of forces acting on ship as stated below: (10 marks)
- i. Hogging
 - ii. Sagging
- b) In a table, analyze SEVEN (7) stages of offshore oil & gas activities complete with the units/vessels used in every stages. (15 marks)

QUESTION 4

Safety on board ships is an important issue. Normally, at sea sometimes very far from any possible assistance, there is nobody who can be called upon for help. Every ship should be provided with sufficient stability and properly equipped. However, safety on a ship is not guaranteed by availability on board of the safety items and system. Safety cannot be bought, most of accidents are the result of human errors.

- a) Justify FOUR (4) types of distress signals used during emergency. (10 marks)
- b) Describe on a 'Gantry Cranes' which is normally used in cargo handling operations. (15 marks)

QUESTION 5

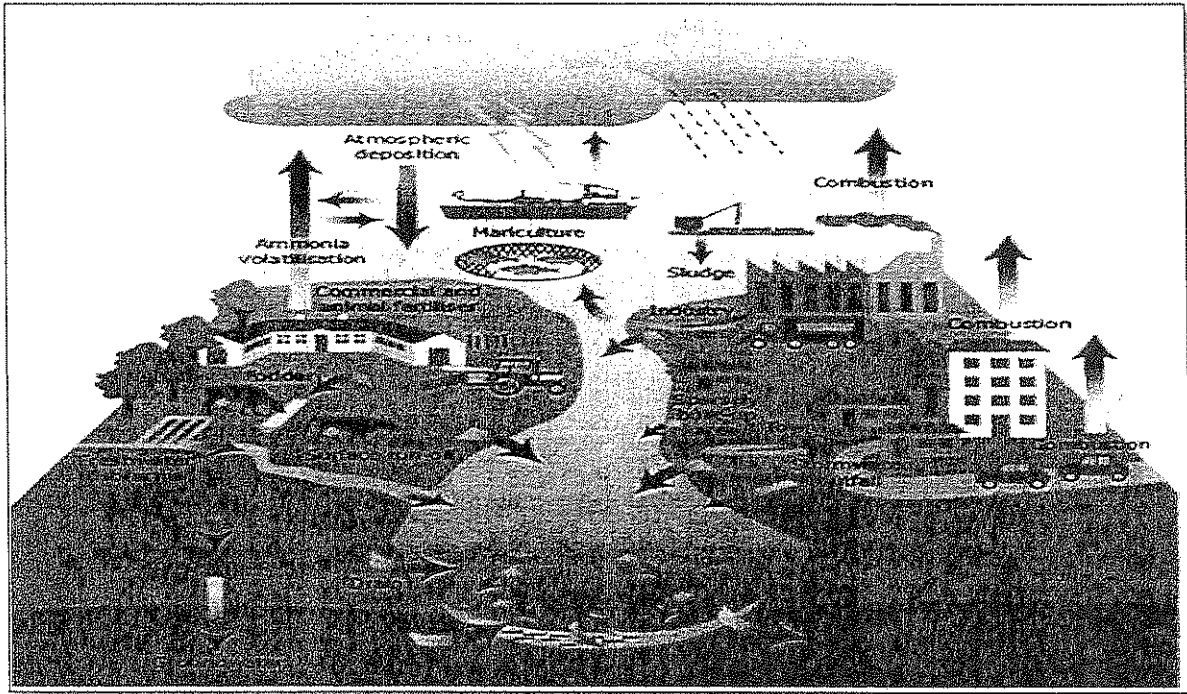


Figure 1: Sources of Marine Pollution

- a) Base on figure 1 above, discuss in details the activities which contributes as the main sources of marine pollution. (10 marks)
- b) From your point of view, justify FIVE (5) reasons why everyone should take care of the environment. (15 marks)

END OF QUESTION

