



UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF MARINE ENGINEERING TECHNOLOGY

FINAL EXAMINATION
JANUARY 2017 SEMESTER

COURSE CODE : LGB11602

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH

PROGRAMME NAME : BACHELOR OF ENGINEERING TECHNOLOGY (HONS)
(FOR MPU: PROGRAMME LEVEL) IN NAVAL ARCHITECTURE & SHIPBUILDING
BACHELOR OF MARITIME OPERATIONS (HONS)

DATE : 10/07/2017 MON

TIME : 2.00 PM - 04.00 PM

DURATION : 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Please read **CAREFULLY** the instructions given in the question paper.
 2. This question paper has information printed on both sides.
 3. This question paper consists of **FIVE (5)** questions. Answer **FOUR (4)** questions only.
 4. Please write yours answers on the answer booklet provided.
 5. Write your answers only in **BLACK** or **BLUE** ink.
 6. Answer all questions in English.
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THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

INSTRUCTION: Answer only FOUR (4) question ONLY.

Please use the answer booklet provided.

Question 1

(a) With regards to OSH in Malaysia, differentiate the following terms of legislation by giving related example.

- i. Acts.
- ii. Regulations
- iii. Code of Practices
- iv. Standards
- v. Guidelines

(15 marks)

(b) Company A is currently involving in shipbuilding and repair with 120 workers. Company A is yet to implement OSH system in their company and due to audit.

As one of the manager in the company, you are required to suggest company A what to do in order to comply in OSH act and regulations in Malaysia.

(10 marks)

Question 2

(a) Define hazards and its classifications. Give example for each classification

(10 marks)

(b) Select any case for hazard risk; evaluate and explain how to apply the procedure for Risk Control under HIRARC.

(15 marks)

Question 3

“Good housekeeping means having no unnecessary items about and keeping all necessary items in their proper place”.

(a) Based on above quote; could you interpret how good housekeeping relates with safety?

(10 marks)

(b) With example, illustrate the implementation of 5S concept in shipyard.

(15 marks)

Question 4

(a) The two main areas of concern regarding workplace pollution is water pollution. Discuss the sources of the pollution in shipyards operations and suggest for the control measures.

(15 marks)

(b) MARPOL Annex VI, first adopted in 1997, limits the main air pollutants contained in ships exhaust gas, including sulphur oxides (SO_x) and nitrous oxides (NO_x), and prohibits deliberate emissions of ozone depleting substances (ODS). MARPOL Annex VI also regulates shipboard incineration, and the emissions of volatile organic compounds (VOC) from tankers.

Could you conclude what criteria of the ships bounded by MARPOL ANNEX VI regulations.

(10 marks)

Question 5

- (a) Explain safe working practice of using ladder. You may include sketches to support your explanation.

(10 marks)

- (b) Generally, the risks associated with hazardous chemicals are either by inhalation of the particulates or gases and vapors or the direct contact of the chemicals with the skin, or eyes. The protection required against these risks can be addressed based on the part of the body where contact takes place, viz. the head, face/eyes, respiratory system (nose/mouth), body, hand and leg/feet. Analyze the risks associated with hazardous chemicals and evaluate types of respiratory protection for the risks.

(15 marks)