

**UNIVERSITI KUALA LUMPUR
MALAYSIAN INSTITUTE OF INDUSTRIAL TECHNOLOGY**

**FINAL EXAMINATION
JANUARY 2016 SEMESTER**

COURSE CODE : JGB 40102
COURSE TITLE : ENGINEERING ETHICS
PROGRAMME LEVEL : BACHELOR
DATE : 24 MAY 2016
TIME : 2.30 PM – 5.30 PM
DURATION : 3 HOURS

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. This question paper consists of **ONE** sections **ONLY**. Section A.
 4. Answer **FOUR (4)** questions **ONLY**.
 5. Please write your answers on the answer booklet provided.
 6. Please answer all questions in English only.
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THERE ARE 5 PAGES OF QUESTIONS EXCLUDING THIS PAGE.

Question 2



Figure 2: Royal Malaysian Customs emblem

Kyra M. is one of governments official working at Royal Malaysian Customs Department located in Johor Bahru branch. One of her responsibility is to verify and approve goods duty tax application for a company to import any taxable goods into Malaysia. Recently one of a company representative has approached her to exclude their company from being taxed for each goods that they will export to Malaysia and in return the company will share 20% of savings from the tax exclusions as token of appreciation to Kyra M. Based from the given scenario, answer the following questions.

- (a) Determine the necessary steps to solve Kyra M. ethical dilemma. (10 marks)
- (b) Evaluate **FIVE (5)** importance of code of ethics for Kyra M. as a Customs Officer. (10 marks)
- (c) Discuss engineering code of ethics (5 marks)

Question 3

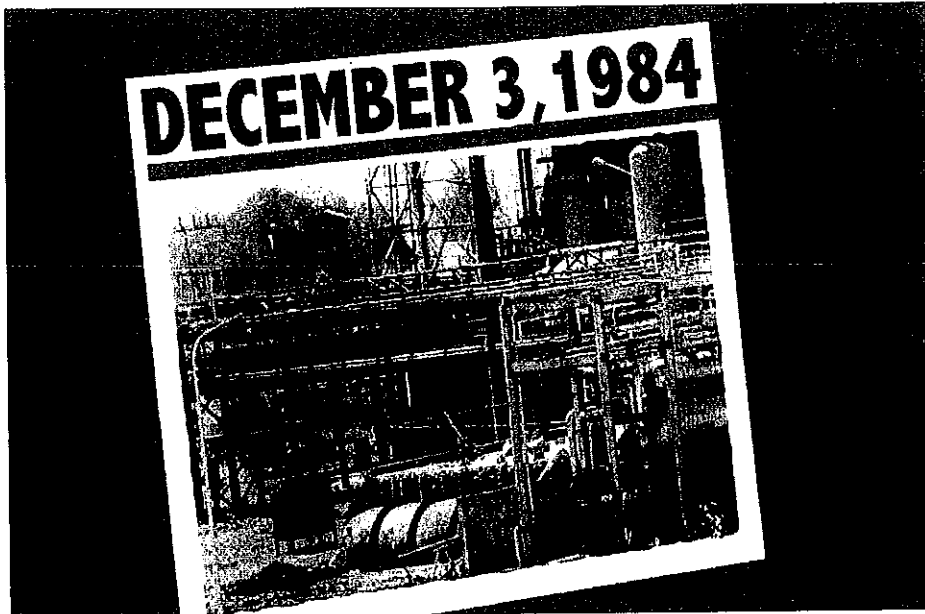


Figure 3: Bhopal Gas Tragedy news headline

By referring and guided by the case study of 'The Bhopal Gas Tragedy' that occurs on December 3rd, 1984. Answer the question below:

- (a) There are several causes that lead to the Bhopal tragedy, list out **FIVE (5)** major ethical issues that causes the tragedy?
(5 marks)
- (b) In May 1982, there were several American Engineers that has been assigned to inspect Bhopal plant, critically analyze their findings?
(5 marks)
- (c) Develop a comprehensive guideline for incorporating safety working procedure at UCC.
(5 marks)
- (d) What is the main chemical reaction that had caused *Methyl Isocyanate* to ruptured storage tank no. 610 and Justify why this reaction became deadly?
(10 marks)

Question 4

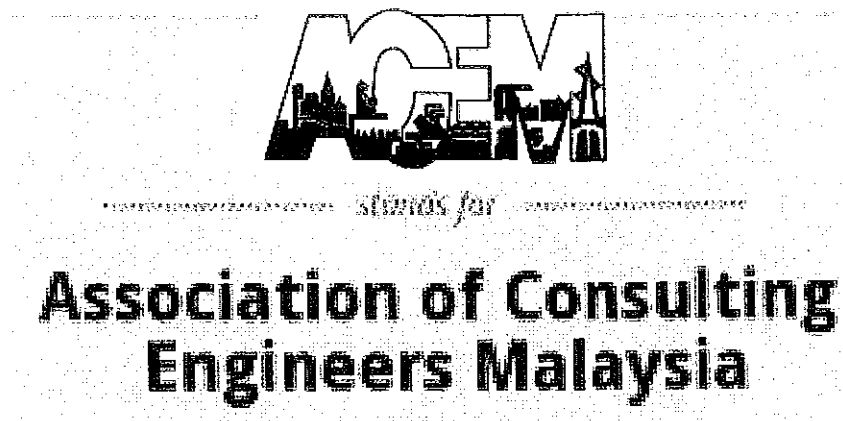


Figure 4: ACEM

Ezwan Lutfi has been practicing his engineering knowledge and skill in the Oil and Gas industry for nearly 30 years. He is now in the retirement stages of his engineering career, because Ezwan feels that he stills can contribute to the society he has decided to establish a new engineering consulting firm which can provide the expertise needed in the Oil and Gas Industry and become a Consulting Engineers himself. By doing this, Ezwan can avoid losing all of the valuable expertise that he has gain during his engineering career. Referring to this scenario, answer the following questions.

- (a) Classify **FIVE (5)** other multi-faced roles that Consulting Engineers can engage.
(5 marks)
- (b) Discuss what Consulting Engineers is.
(5 marks)
- (c) To ensure Ezwan Lutfi can successfully become a Consulting Engineers he must first fulfill the required criteria. Analyze these criteria.
(5 marks)
- (d) With the new established engineering consulting firm, help Ezwan Lutfi to evaluate why an organization would hire consulting engineers.
(10 marks)

Question 5

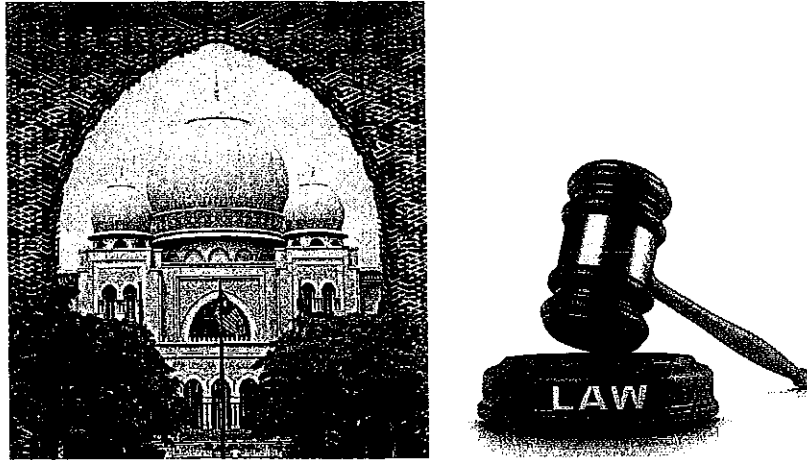


Figure 5: Istana Kehakiman Malaysia

Prior to the independence in 1957, most of the laws of United Kingdom were imported and either made into local legislation or simply applied as case laws. The law of Malaysia is mainly based on the common law legal system. This was a direct result of the colonization of Malaya, Sarawak, and North Borneo by Britain between the early 19th century to 1960s. The supreme law of the land is known as the Constitution of Malaysia which sets out the legal framework and rights of Malaysian citizens.

Federal laws enacted by the Parliament of Malaysia apply throughout the country. There are also state laws enacted by the State Legislative Assemblies which applies in the particular state. The constitution of Malaysia also provides for a unique dual justice system which is the secular laws and the sharia laws.

- (a) Define law. (5 marks)
- (b) In Malaysia, there are **TWO (2)** known categories of secular law. Determine those categories of law. (5 marks)
- (c) Discuss the common functions of law. (5 marks)
- (d) Outline in details the functions of law. (10 marks)

END OF EXAMINATION PAPER