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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2012/2013**

COURSE NAME : ENGINEERS AND SOCIETY
COURSE CODE : BEE 10202
PROGRAMME : BED/BEF/BEH/BEU
EXAMINATION DATE : JUNE 2013
DURATION : 2 ½ HOURS
INSTRUCTION : 1. ANSWER ALL QUESTIONS IN SECTION A
2. ANSWER FOUR (4) QUESTIONS IN SECTION B

THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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SECTION A (40 marks)
Answer ALL Questions

Q1 List TWO (2) structures of engineering organisations in Malaysia. (2 marks)

Q2 Criteria for person **A** and **B** are:

A	B
A person registered under subsection 10(1)	An Engineer registered under subsection 10(2)
A person holds the qualifications required for Graduate Membership of the IEM and recognized by the Board	Passed a professional assessment examination conducted by the Board

Name person **A** and **B**. (2 marks)

Q3 List FOUR (4) types of ethical theories. (4 marks)

Q4 Engineer **A** is unprepared for his job promotion examination, thus he plans to cheat and believe he can get a best result. Analyze this case by using ONE (1) best ethical theory. (4 marks)

Q5 Explain the important of Occupational Safety and Health Act 1994. (3 marks)

Q6 Explain the meaning of devices for emergency switching. (2 marks)

Q7 Give the difference of company loyalty and whistle-blowing. (4 marks)

Q8 Equal opportunity is a stipulation that all people should be treated similarly. Explain the important of equal opportunity at workplace. (10 marks)

Q9 Multinational Corporation such as Microsoft, Kimberly Clark, PETRONAS and MAYBANK; is an organisation doing business in more than one country. Based on your knowledge, summarise the advantages of this activities to host countries. (4 marks)

Q10 "Environmental ethics can be defined as a commitment and responsibility toward the environment, including plants and animals as well as present and future generations of people. Unfortunately, most of young Malaysian generations overlook on this issue." Formulate a simple idea to educate a young generation to appreciate, commit and responsible toward the environment. (5 marks)

SECTION B (60 Marks)

Answer **FOUR (4)** Questions Only

- Q1** Demonstrate the important of professional ethics to engineers. Support your answers with suitable example. (15 marks)
- Q2** “Engineer B is employed by ABC Engineering, an engineering firm in private practice involved in the structures design. As part of its services, ABC engineering uses a CAD software design product under a licensing agreement; ABC Engineering is not permitted to use the software at more than one workstation without paying a higher licensing fee. ABC Engineering ignores this restriction and uses the software at a number of employee workstations. Engineer B aware of this practice and calls a ‘hotline’ publisher in technical publication and reports his employer’s activities”
Use the moral and ethical reasoning to support the action of Engineer B. (15 marks)
- Q3** Show the important of Occupational Safety and Health Act (OSHA) 1994, and support with an appropriate example. (15 marks)
- Q4** Hazard analysis is an orderly process used to determine if a hazard exists in a workplace. Show how to perform hazard analysis in workplace. (15 marks)
- Q5** Engineers should not only inform the society about the impact of the technologies and make companies aware about sustainable development issues, but also cooperate with all kinds of stakeholders to improve the quality of our future.
Express your personal opinion to guarantee the successfulness of this issue. (15 marks)

- END OF QUESTION -