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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

COURSE NAME : ENGINEERS AND SOCIETY
COURSE CODE : BPK 4032 / BEX 42702
PROGRAMME : 4 BEE
EXAMINATION DATE : JUNE 2013
DURATION : 2 HOURS
INSTRUCTION : ANSWER FOUR (4) QUESTIONS ONLY

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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- Q1**
- (a) Elaborate on the steps required to be taken by an engineering graduate to become a registered professional engineer in Malaysia.
(5 marks)
 - (b) The scope of engineering works is accorded normally based on disciplines, functions and career paths. Distinguish on the differences of works for engineers based on functions and career paths.
(15 marks)
 - (c) Professional Engineers, lawyers and medical doctors are categorically different from professional footballers, sportsmen/women and artists. Can you defend that statement by judging from the factors involved in the role of engineering?
(5 marks)
- Q2** *“The profession in which a knowledge of the mathematical and natural sciences gained by study, experience, applied practices with judgement, to develop ways to utilize economically the materials and forces of nature for the benefit of mankind”.*
- (a) Based on the above statement, how do you translate and point out in deliverable duties as an engineer.
(10 marks)
 - (b) Distinguish between engineers as managers and engineers as consultants.
(10 marks)
 - (c) Differentiate and give example between the so called Regulatory Body and Professional Institution in engineering.
(5 marks)
- Q3**
- (a) Evaluate the importance of Code of Ethics. Explain how Code of Ethics can be applied to help engineers fulfilling their duties.
(10 marks)
 - (b) Intellectual property normally contributes as a development indicator for a nation.
 - (i) Differentiate three (3) types of intellectual properties; patents, trademarks and industrial designs.
(9 marks)
 - (ii) Define what is copyright and list the items protected under copyright law.
(6 marks)

- Q4** (a) Justify why does a worker in this country need to support the Malaysian Occupational Safety and Health (OSH) Act. (3 marks)
- (b) Under the OSH Act, both employers and employees have responsibilities and rights at their place of work. Compare and discuss on the responsibilities of employers and the rights of employees. (12 marks)
- (c) Explain four (4) objectives of the Occupational Safety and Health (OSH) Act. (10 marks)
- Q5** (a) Classify in detail with examples on three types of obligations for engineers. (15 marks)
- (b) You and your design group are competing for a multidisciplinary concept project. Your firm is the lead group in the design professional consortium formed to compete for the project. Your consortium has been selected to be the first to enter fee negotiations with the project owner. During negotiations, the amount you have to cut from your fee to be awarded the contract will require dropping one of the consortium members whose staff has special capabilities not found in the staff of the remaining consortium members.
- Judge the scenario of the case. (10 marks)
- Q6** (a) The legislation in Malaysia governing contracts is the Contract Act, 1950 (Revised 1974).
- (i) Define and explain the term “contract”. (4 marks)
- (ii) Differentiate three (3) types of contract; unilateral contract, bilateral contract and collateral contract. (9 marks)
- (b) (i) Determine the necessary features that are required to exist in order to enable the act of whistle-blowing. (4 marks)

- (ii) Elaborate on the types of whistle blowers. (4 marks)
- (iii) How can whistle-blowers be permitted to execute the whistle-blowing act. (4 marks)

- END OF QUESTION -