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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2017/2018**

COURSE NAME : ENGINEERS AND SOCIETY
COURSE CODE : BEE 10202
PROGRAMME : BEV/BEJ
EXAMINATION DATE : JUNE / JULY 2018
DURATION : 2 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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- Q1** (a) Board of Engineers Malaysia (BEM) produces the Code of Professional Conduct of an engineer as the guidelines in engineering profession. Describe all FIVE (5) main sections in this code. (5 marks)
- (b) Define the meaning ethics? In engineering profession, ethic can be divided into personal and professional ethics. Explain both of these ethics. (9 marks)
- (c) The Institution of Engineers Malaysia (IEM) and the Board of Engineers, Malaysia (BEM) are two important bodies that govern the engineers in Malaysia. Distinguish the functions of these institutions and assess their contribution in national human resources development. State the main difference between these two entities. (11 marks)
- Q2** (a) Board of Engineers Malaysia (BEM) is a statutory body constituted under the registration of Engineers Act 1967. It was formed on 23 August 1972. BEM falls within the domain of responsibility of the Minister of Works. The appointment of the Board Members and the Register is made by the Minister. In essence, the Board is established for regulating the professional conduct and practice of registered engineers in order to safeguard the public safety and interest. Describe the function of BEM in maintaining the registered engineers. (5 marks)
- (b) Ethical standards of practice have never been more besieged than they are today. Those with strong moral fiber, a dedication to professional integrity, and the ability to reason soundly must find the power to resist the attack." – Lewis 1995. According to the statement, articulate what should the engineers watch out for offering and acceptance of illegal advantages? (6 marks)
- (c) As consulting engineer, you have been asked by your client company to perform some study which is not in your area or expertise. The client insists that you to conduct the study as soon as possible before your contract ended. Actually, your client doesn't want to hire a new consulting engineer to perform the study as a cost saving measures. Suggest the counter measures needed in handling this situation and provide your justification (14 marks)
- Q3** (a) Describe in Engineering Aspect what you understand about the word:
- i) globalization
- ii) sustainable development

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(10 marks)

- (b) A government chief engineer took advantage of his office to solicit \$400,000 from a project manager of a land development company as a reward for his assistance in obtaining green light for the company's car park development project. Subsequent to the first application of the project being turned down by the relevant government department, the chief engineer asked for the advantages from the company. Frustrated at being asked to pay bribes to secure the project, the project manager reported the case to the Anti Corruption Agency (ACA). The chief engineer eventually convicted of soliciting and accepting illegal advantages, and was sentenced to an imprisonment of four years and six months. Explain in brief the wrongdoing of the chief engineer in accepting bribes in granting project approval.

(8 marks)

- (c) Engineers are often entrusted with the responsibility of implementing large-scale projects involving millions of Ringgit. In view of the large amount of money changing hands, the integrity and ethical standards of engineers are being put to test. Point out what measures can an engineer take to prevent corruption and unethical practice of cutting corners in order to safeguard the good image of the engineering profession?

(7 marks)

- Q4 (a) An engineer must comprehend what constitutes as his or her obligations. Distinguish the **FOUR** types of obligations.

(13 marks)

- (b) Illustrate what is whistle blowing? Characterise **FOUR** main features of whistle blowing. Break down what are the necessary guidelines that must be followed when an engineer decide to proceed with the act of whistle blowing?

(12 marks)

- END OF QUESTION -