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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

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

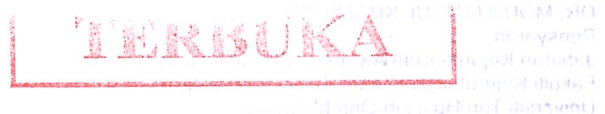
COURSE NAME : ENVIRONMENTAL MANAGEMENT
COURSE CODE : BFA 40103
PROGRAMME CODE : BFF
EXAMINATION DATE : JUNE/JULY 2018
DURATION : 3 HOURS
INSTRUCTION : ANSWER FIVE (5) QUESTIONS ONLY

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THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES

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- Q1**
- (a) Explain briefly environmental management system of ISO 14000? (3 marks)
 - (b) List **FOUR (4)** advantages and disadvantages of the ISO 14000 series of standards to industry from an international point of view. (8 marks)
 - (c) Discuss **THREE (3)** differences between Environmental Impact Assessment (EIA) and Environmental Management System (EMS). (9 marks)
- Q2**
- (a) While you are shopping in a grocery store, list **FIVE (5)** things you can do to save the environment. (5 marks)
 - (b) Illustrate and label waste management hierarchy in waste management system. (5 marks)
 - (c) You are a consulting engineer hired by a company to evaluate waste minimization opportunities in the organization. Propose your approach for conducting a waste minimization program. (10 marks)
- Q3**
- (a) Distinguish green chemistry and green engineering. (4 marks)
 - (b) Explain the importance of maintaining protected areas. (4 marks)
 - (c) **FIGURE Q3** shows the growth of world human population by world region from 1950 to 2050. Explain:
 - i) The rapid increase in world population since 1950. (6 marks)
 - ii) Environmental problems caused by population growth. (6 marks)



- Q4** (a) State **THREE (3)** effects of transportation to human health. (3 marks)
- (b) Discuss **THREE (3)** transportation impacts required to be examined and quantified. (9 marks)
- (c) Suggest and justify **TWO (2)** actions that could be taken by the local authority to control and minimize the source of pollution caused by the transportation. (8 marks)
- Q5** (a) State **THREE (3)** roles of NGOs in the protection of mangrove swamp. (3 marks)
- (c) Describe briefly the procedures involved in an Environmental Auditing. (8 marks)
- (b) The responsibility of the audit team is to gather objective evidence. Explain the methods and approaches that the auditors may use to gather evidences. (9 marks)
- Q6** (a) Explain the importance of Environmental Impact Assessment (EIA) in protecting the environment. (3 marks)
- (b) Discuss the Plan-Do-Check-Act model of an Environmental Management System (EMS). (8 marks)
- (c) KL-Singapore high-speed rail (HSR) is to be developed in Malaysia. Propose **THREE (3)** important parameters to predict the impacts on surface-water environment and give example. (9 marks)

- END OF QUESTIONS -

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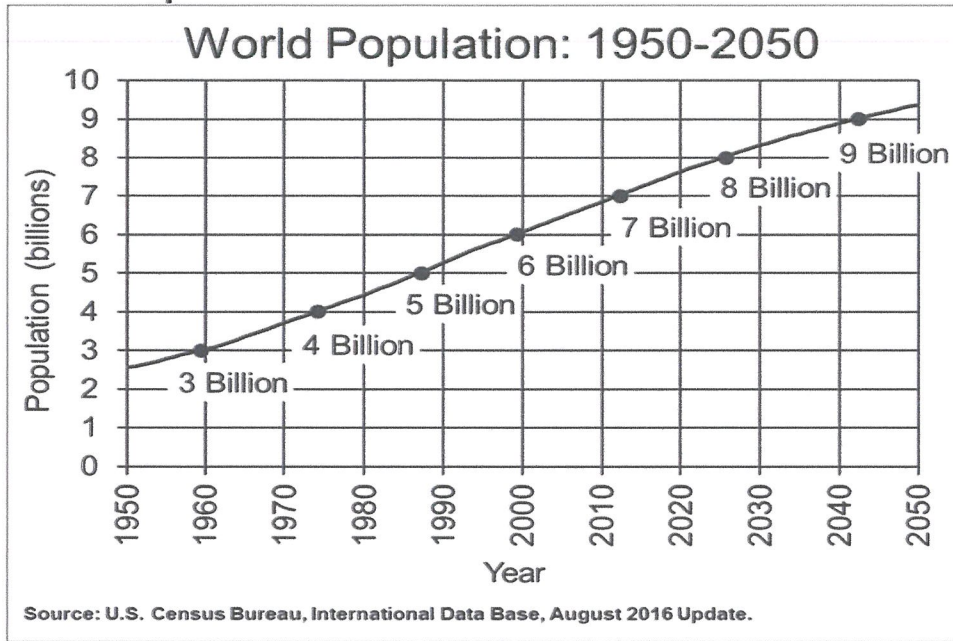


FIGURE Q3

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