



UTHM

Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESI 2017/2018

COURSE NAME : NATURE CONSERVATION
COURSE CODE : BFC10202
PROGRAMME CODE : BFF
EXAMINATION DATE : JUNE/JULY 2018
DURATION : 2 HOURS
INSTRUCTION : ANSWER **FIVE (5)** QUESTIONS ONLY

TERBUKA

THIS QUESTION PAPER CONSISTS OF **FOUR (4)** PAGES

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- Q1** (a) Define genetic, species and ecosystem in biodiversity levels. (6 marks)
- (b) Discuss **TWO (2)** issues facing the biodiversity in Malaysia. (6 marks)
- (c) The purpose of dam construction for hydropower is to meet growing demand for electricity. As a project engineer, discuss **TWO (2)** possible challenges to environment facing by the project engineer and provide method to minimize each challenges. (8 marks)

- Q2** (a) Give **FOUR (4)** effects of human overpopulation to the environment. (4 marks)
- (b) Relate how these gases derived from human activities cause increase of greenhouse gases thus lead to global warming;
- (i) Carbon dioxide (CO₂)
- (ii) Methane (CH₄) (8 marks)
- (c) “There is not always enough food available in a country to feed the people. A severe food shortage can lead to famine.” Briefly discuss **FOUR (4)** causes of food supply problem and relate your answer with the impact of human activities. (8 marks)

A red rectangular stamp with the word "TERBUKA" written in capital letters inside.

- Q3** (a) List **TWO (2)** benefits of solid waste recycling. (2 marks)
- (b) Malaysia has been blessed with abundant of rainfall. However, Malaysia still facing water problem. Briefly discuss the **THREE (3)** causes and provide possible solutions. (9 marks)
- (c) Briefly discuss how the waste below can be converted to something useful for better environment:
- (i) Landfill gas
 - (ii) Bioethanol plants (such as Jatophra, palm oil fiber)
 - (iii) Urine
- (9 marks)
- Q4** (a) List **FOUR (4)** example of learning methods for effective environment education. (4 marks)
- (b) Mangrove planting activity is one of an effective environmental awareness program in Malaysia. List **FOUR (4)** benefits to the young generation. (8 marks)
- (c) Renewable energy production which is renewed by natural processes and has many advantages. Discuss implementation of the renewable energy below that can benefit to the mankind:
- (i) Hydropower
 - (ii) Solar
- (8 marks)

- Q5** (a) Briefly explain **THREE (3)** principles in conservation. (6 marks)
- (b) Describe what is meant by ‘ramsar’ site and its role in conservation. List out **THREE (3)** ramsar sites in Malaysia. (8 marks)
- (c) Deforestation has become a major concern to the country. Discuss **THREE (3)** threats facing by the Malaysian tropical rainforests and suggest conservation methods to overcome each of the threats. (6 marks)
- Q6** (a) List **TWO (2)** examples of each natural and man made disaster. (4 marks)
- (b) Briefly discuss the formation of natural disaster. (6 marks)
- (c) There are four principles (4R) in managing a natural disaster: reduction of risk, readiness, response and recovery. Assuming you are the responsible person to manage a flood disaster, discuss briefly how you would carry out each of these principles. (10 marks)

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-END OF QUESTIONS -