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Universiti Tun Hussein Onn Malaysia

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESI 2017/2018**

COURSE NAME : NATURE CONSERVATION
COURSE CODE : BFC10202
PROGRAMME CODE : BFF
EXAMINATION DATE : DECEMBER 2017 / JANUARY 2018
DURATION : 2 HOURS
INSTRUCTION : ANSWER FIVE(5) QUESTIONS ONLY

TERBUKA

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

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Q1 (a) List **FIVE (5)** values of biodiversity and **THREE (3)** issues and challenges in maintaining the biodiversity.

(8 marks)

(b) A construction project of 10 km road passing an area is surrounded by forest, river and a lake. As a project engineer;

(i) Explain **THREE (3)** relationships between the road and surrounding environment.

(3 marks)

(ii) Discuss **THREE (3)** possible challenges faced by the project engineer and method to minimize each of the challenges.

(9 marks)

Q2 (a) Define and provide example for each of the following biodiversity levels:

(i) Genetic

(ii) Ecosystem

(8 marks)

(b) Describe **TWO (2)** advantages how biodiversity can benefit Malaysia particularly on plant and animal.

(12 marks)



Q3 (a) Define briefly the sources of carbon dioxide (CO₂) and define thoroughly the impact of the air pollution towards global warming **OR** loss of biodiversity in Malaysia

(8 marks)

(b) Discuss **THREE (3)** prevention methods to decrease the impact of water pollution and give **TWO (2)** examples of each water pollutant as follows:

(i) Pathogens

(ii) Chemicals

(iii) Thermal

(12 marks)

- Q4** (a) Identify the approach for the following sustainable solutions:
- (i) Constructed wetland
 - (ii) Waste to wealth
 - (iii) Biogas plant
 - (iv) Solar power
- (8 marks)
- (b) Define the term disaster and classify the natural and man-made disasters. Give **TWO (2)** examples for each disaster.
- (12 marks)
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- Q5** (a) Identify the conservation concept and list **FOUR (4)** concepts of ecosystem management for biodiversity conservation planning.
- (8 marks)
- (b) Explain the differences of in-situ and ex-situ conservation methods and provide **THREE (3)** examples for each conservation method
- (12 marks)
- TERBUKA**
- Q6** (a) 'River Ranger' and 'Love Our Rivers' are education activities related to river campaign in Malaysia. List **FOUR (4)** importances of this program in enhancing the responsibility of Malaysian in maintaining the good environment
- (8 marks)
- (b) Discuss how the following parties would be able to show their commitment on the maintaining the healthy environment in Malaysia.
- (i) School children
 - (ii) Corporate sectors
 - (iii) Non-government Organization
 - (iv) Federal/state authority
- (12 marks)

– END OF QUESTIONS –