



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER I
SESSION 2019/2020**

COURSE NAME : INTRODUCTION TO
CONSERVATION BIOLOGY

COURSE CODE : BWJ 10203

PROGRAMME : BWW

EXAMINATION DATE : DECEMBER 2019/JANUARY 2020

DURATION : 3 HOURS

INSTRUCTION : ANSWER **ALL** QUESTIONS

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

- Q1** (a) Analyse the differences between concepts and principles of conservation. (6 marks)
- (b) (i) Define endemism and list **TWO (2)** examples of endemic plants and/or animals. (4 marks)
- (ii) Based on **Table Q1(b)(ii)**, what can you tell about biodiversity of mammals in Malaysia. (4 marks)
- (c) Ecological interactions include mutualism. Explain mutualism by giving **ONE (1)** example. (6 marks)
- Q2** (a) There are two approaches in conservation: *in-situ* and *ex-situ*. If you have to conserve a large tract of mangrove forest, which of these approaches is appropriate. Explain your answer. (4 marks)
- (b) There are 4 principles in conservation of ecosystem. Examine **TWO (2)** of these principles and give your opinion on why each is important for conservation. (8 marks)
- (c) For nature exposure, you had been to Taman Negara Johor Endau Rompin (Peta) in Johor. Analyse and suggest each of **FOUR (4)** characteristics and facilities you observed in this area to show that this area is still pristine and useful to educate, communicate and raise public awareness on the importance of conserving biodiversity. (8 marks)
- Q3** (a) (i) Demonstrate the **THREE (3)** responsibilities of a Malaysian conservation biologist to Malaysia. (6 marks)
- (ii) Based on your answer in **Q3(a)(i)**, which is the most challenging responsibility? Justify your answer. (2 marks)
- (b) Two of the threats for biodiversity are land use changes and natural disaster. Based on **ONE (1)** real example, elaborate how each of these threats negatively affected biodiversity in Malaysia. (4 marks)
- (c) (i) Malaysia is rich in biodiversity but we do not know sufficiently of our biodiversity. Analyse this statement and give your opinion on its impacts to biodiversity in Malaysia. (4 marks)

- (ii) Give your opinion on **TWO (2)** ways how can Malaysia address this issue.
(4 marks)

- Q4** (a) Define speciation and the theory of evolution.
(4 marks)
- (b) Currently planet earth is undergoing the 6th mass extinction, which is affecting large sized mammals and birds. Besides size, explain **FOUR (4)** other characteristics of mammals that may make them vulnerable to extinction.
(8 marks)
- (c) (i) Suggest **THREE (3)** human activities that cause environmental problem leading to erosion and extinction of species. Explain your answer.
(6 marks)
- (ii) Based on your answer in **Q4(c)(i)**, give opinion on which activity is most devastating. Explain your answer
(2 marks)
- Q5** (a) Explain Sustainable Development.
(4 marks)
- (b) (i) List and explain **THREE (3)** goals specified in the Malaysian National Policy on Biological Diversity 2016-2025.
(6 marks)
- (ii) Based on your answer in **Q5(b)(i)**, suggest what can be done to help achieve any **ONE (1)** of the goals.
(2 marks)
- (c) (i) There is currently an effort by the Ministry of Education to introduce subject on environmental education in Malaysian school system. Define Environmental Education.
(2 marks)
- (ii) Suggest **THREE (3)** reasons why Environmental Education is relevant to the present situation in Malaysia.
(4 markah)

- END OF QUESTIONS -

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Table Q1(b)(ii)

Animal group	Number of species in Malaysia	Number of endemic in Malaysia	Number of species in world
Mammalia	306	27	4327

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