

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2018/2019

COURSE NAME

PRINCIPLES OF BIODIVERSITY

AND CONSERVATION

COURSE CODE

BWJ 10102

PROGRAMME CODE :

BWW

EXAMINATION DATE :

DECEMBER 2018 / JANUARY 2019

DURATION

2 HOURS

INSTRUCTION

ANSWER ALL QUESTIONS

TERBUKA

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

Q1

(a)

Give FIVE (5) examples of ecosystem diversity.

	(5 marks)
(b) Define genetic diversity and explain how is it important to conservation.	(5 marks)
 (c) The distribution of species worldwide is highly infuenced by its geographical Differentiate the pattern of distribution of species between the following. (i) Tundra and Boreal (ii) Tropical savanna and Tropical dry forest 	al location. (10 marks)
Q2 (a) Explain the following. (i) Food web (ii) Key mutualist (iii) Ecological niche (iv) First trophic level (v) Allogenous engineer	(10 marks)
(b) Lowland tropical rainforest is an ecosystem that supports thousands of special relatively small area. Illustrate how co-existence of thousands of special possible in a lowland tropical rainforest like that of Taman Negara Joh Rompin.	ies can be
Q3 (a) Explain how the following are assessed. (i) Species richness (ii) Species evenness (iii) Species abundance	(6 marks)
(b) The inventory of biodiversity is implemented for specific purposes and active standard and well-established procedures. Outline the THREE (3) intensity employed in inventory and demonstrate how each can effectively accurate information on the status of biodiversity.) levels of
The loss of biodiversity can be due to many factors. Differentiate the biodiversity caused by natural events from anthropogenic factors. Give T examples of natural causes and THREE (3) examples of anthropogenic explain each example clearly.	he loss of HREE (3)

- (b) Given the scenario in Q4(a), analyze how the following can be protected from further loss of biodiversity.
 - (i) Lowland dipterocarp forest
 - (ii) Wetlands ecosystem

(10 marks)

- Q5 (a) One way conservation of biodiversity can be best achieved is through effective environmental education programme. Demonstrate how the following target groups can be effectively educated about the importance of biodiversity. Support your answer by providing specific examples.
 - (i) Primary school teachers
 - (ii) Urban community

(10 marks)

(b) Analyze the philosophy of sustainable development and explain why it is important to the long-term conservation of biodiversity.

(5 marks)

(c) Conservation of biodiversity can be implemented according to three levels: genetic, species and ecosystem. However, given limited resources (i.e. funding, human resources), you are tasked to prioritize only one of these. Justify which among these levels is best to effectively conserve biodiversity.

(5 marks)

END OF QUESTIONS -

