

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2022/2023

COURSE NAME

INTRODUCTION TO

CONSERVATION BIOLOGY

COURSE CODE

BWJ 10203

PROGRAMME CODE

BWW

1

EXAMINATION DATE

JULY/AUGUST 2023

DURATION

3 HOURS

INSTRUCTION

1. ANSWER ALL QUESTIONS

2. THIS FINAL EXAMINATION IS

CONDUCTED VIA

☐ Open book

3. STUDENTS ARE **PROHIBITED** TO

CONSULT THEIR OWN

MATERIAL OR ANY EXTERNAL

RESOURCES DURING THE

EXAMINATION CONDUCTED

VIA CLOSED BOOK

THIS QUESTION PAPER CONSISTS OF FOUR (4) PAGES



Q1	(a)	State	e the definition of conservation.	
				(4 marks)
	(b)	Expl	ain the THREE (3) missions of conservation of biodiversity.	
				(6 marks)
	(c)	State	the SIX (6) values of biodiversity.	
	(0)	State	the SIA (b) values of biodiversity.	(6 marks)
	(d)	Diale	TWO (2) -1 - 5 - 01() -1 -	
			any TWO (2) values from Q1(c) and demonstrate a scenario for each ays the importance of biodiversity.	value that
			1	(4 marks)
Q2	(a)	Class	sify each organism listed below based on their phylum.	
		•	Snail	
		•	Leech	
		•	Toad	
		•	Sea star	
		•	Roundworms	
		•	Flatworm	
		•	Coral	
			Sea sponge	
			Sea sponge	/O .
				(8 marks)
	(b)	(i)	Demonstrate TWO (2) importance of animals from the class Porifera	a for either
			humans or the ecosystem.	(4 marks)
		(ii)	Based on your answer in Q2(b)(i), explain ONE (1) threat that the this class may face.	animals in
			this class may face.	(6 marks)
	(a)	Ctata 4	4	
	(c)	on spe	the name of the book written by Rachel Carson in 1962 that initiated access conservation.	discussion
		•		(2 marks)
Q3	(a)	(i)	Explain TWO (2) reasons why species such as Hopea subalated	or Betta
			persephone can only be found in Peninsular Malaysia and nowhe the world.	re else in
				(7 marks)

2



(ii) Give TWO (2) examples of species that may face the same scenario as Q3(a)(i). Name their locality as well.

(4 marks)

(b) Explain the **THREE** (3) principles of conservation.

(9 marks)

Q4 (a) Imagine you are given the opportunity to execute a conservation project. Outline the three basic questions that you would need to ask prior to the execution.

(6 marks)

(b) Explain what is meant by enhanced greenhouse effect and its consequences.

(6 marks)

You are working as a scientist in Forest Research Institute of Malaysia (FRIM). You are looking to conserve and rehabilitate a threatened species of tree. Explain FOUR
 (4) parameters that you need to observe in the population before making the final decision.

(8 marks)

- Q5 (a) Explain the concept of genetic diversity, species diversity and ecosystem diversity.
 (9 marks)
 - (b) Discuss the consequences of the scenario in **Figure Q5.1** on the genetic diversity of a species.

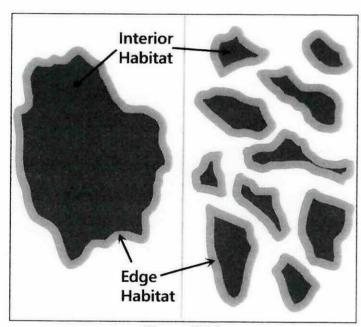


Figure Q5.1

(5 marks)

3



CONFIDENTIAL

BWJ 10203

(c) Demonstrate **THREE** (3) responsibilities of a conservation biologist working with the Department of Wildlife and National Parks focusing on rehabilitation of elephants.

(6 marks)

- END OF QUESTIONS -

4

