

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2014/2015

COURSE NAME

PRINCIPLES OF BIODIVERSITY

AND CONSERVATION

COURSE CODE

BWJ 10102

PROGRAMME

1 BWW

:

EXAMINATION DATE :

DECEMBER 2014 / JANUARY 2015

DURATION

2 HOURS

INSTRUCTION

ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF THREE (3) PAGES

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Q1	(a)	List fi	ive (5) importance of biodiversity.	(5 marks)	
	(b)	Expla	in what is survival of the fittest.	(5 marks)	
	(c)	Show	how:		
		(i) (ii)	Competing species can co-exist over time. Given an example. Natural selection occurs over time. Give an example.	(10 marks)	
Q2	(a)	Demo	instrate how keystone species can indicate ecosystem integrity.	(10 marks)	
	(b)	Name	five (5) importance of biodiversity inventory and monitoring.	(5 marks)	
	(c)	Differ	entiate the application of Shannon-Wiener index from Simpson in	ndex. (5 marks)	
Q3	(a)	Show how are these pressures pose threat to biodiversity:			
		(i) (ii)	Invasive alien species Overexploitation	(10 marks)	
	(b)	potent	Given the pressures to the biodiversity as mentioned above [Q3(a)], analyze potential implications of these threats to the ecosystem services and welfare of people.		
				(10 marks)	
Q4	Consider this scenario: the Ministry of Natural Resources and Environment (NRE) looks after the overall status of biodiversity in Malaysia while the Johor State Government has the authority over land resources in Johor. Perbadanan Taman Negara Johor (PTNJ) is the local authority that safeguards Taman Negara Johor Endau-Rompin (TNJER).				
	(a)	that ca	Given the above scenario, apply the principles of adaptive ecosystem management that can be implemented to effectively conserve TNJER. Explain the advantage of this set-up.		
				(10 marks)	

(b) Under the same scenario, how do you think the involvement of UTHM can contribute to an effective adaptive ecosystem management of TNJER?

(10 marks)

Q5 (a) List and explain briefly the steps involved in top-down approach to conservation of biodiversity. (10 marks)

(b) In conservation practices, justify why establishment of protected areas is always preferred as *in-situ* approach. Support your answer by giving an example.

(10 marks)

- END OF QUESTION -