

FINAL EXAMINATION SEMESTER I SESSION 2015/2016

COURSE NAME

NATURE CONSERVATION

COURSE CODE

BFC 10202

PROGRAMME

BACHELOR OF CIVIL ENGINEERING

WITH HONOURS

TEST DATE

DECEMBER 2015/ JANUARY 2016

DURATION

2½ HOURS

INSTRUCTION

ANSWER FOUR (4) QUESTIONS FROM

FIVE QUESTIONS PROVIDED

THIS PAPER CONSISTS OF FOUR (4) PAGES

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Q1	(a)	State FOUR (4) types of ecological interaction and briefly describe TW types.	O (2) of the
•			(6 marks)
	(b)	Briefly explain THREE (3) examples of renewable energy and the sour	ces.
			(6 marks)
	(c)	Discuss the following major environmental issues:	
		i. Rare-earth processing in Gebengii. Bauxite mining in Kuantaniii. Illegal logging in Cameron Highland	
			(13 marks)
Q2	(a)	List FOUR (4) issues in biodiversity.	(4 marks)
	(b)	Discuss FOUR (4) methods of prevention to decrease the impact of wat and give TWO (2) examples of each water pollutant as follow:	er pollution
		i. Pathogensii. Chemicalsiii. Thermal	
			(10 marks)
	(c)	Explain briefly the characteristics of carbon dioxide (CO ₂) as one of the major air pollutant and discuss thoroughly the impact of the pollution towards global warming and loss of biodiversity in Malaysia.	
		and 1055 of blodiversity in intalaysia.	(11 marks)

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Q3	(a)	One of the three guiding principles for conservation is 'changes are evolutionary'. I giving an example, explain this principle.	
		(4 marks)	
	(b)	There are six important items in formulating a successful management plan for ecosystems. Briefly discuss THREE (3) of the items.	
		(6 marks)	
	(c)	Define protected area (PA). Outline the opportunities and benefits derived from establishing PAs.	
		(6 marks)	
	(d)	Forest ecosystem plays a vital role in maintaining environmental stability and quality. However, there are activities which are threatening the forest ecosystem. Provide THREE (3) examples of the threat and plan the conservation method of each.	
		(9 marks)	
Q4	(a)	Suggest TWO (2) methods to reduce impacts of earthquake. (6 marks)	
	(b)	Explain the formation of volcanoes.	
		(7 marks)	
	(c)	Briefly discuss geological processes in causing natural disaster and propose THREE (3) solutions.	
		(12 marks)	

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Q5 (a) Identify TWO (2) key concepts of sustainable development. (1 marks)

(b) Define sustainable development based on 'Our Common Future (1987)'.

(2 marks)

(c) Propose **THREE** (3) suggestions to improve the understanding of sustainable development amongst industrial practices.

(6 marks)

(d) Classify learning objectives of environmental education into **EIGHT (8)** characteristics. (8 marks)

(e) Discuss the importance of practicing environmental ethics and give **FOUR (4)** reasons. (8 marks)

- END OF QUESTIONS -