

RAJARATA UNIVERSITY OF SRI LANKA FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (General) Degree in Applied Biology Fourth Year – Semester I Examination – October/November 2015

BIO 4209 - BIODIVERSITY AND ECONOMICS

Part I- Structured Questions

In	idex No:
Instructions: Answer all questions Write your index number in the question paper and in the answer Write your answers in the space provided Hand over answer script to the examiner	
Time	e: One (01) houy
	Marks: 40
01.a) State five (05) economic reason to loss biodiversity.	
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	•••••
	•••••
b) List five (05) limitations of GDP as a measure of sustainable development	indicator.
	•••••
c) State five (05) properties a sustainable development indicator should encom	nass
y same and (12) partial descriptions material blooms	ipuss.
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d) Discuss in brief the role of biodiversity in maintaining food security of a country.
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e) Contrast services provided by biodiversity and economic services?
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(10 marks)
02. a) What are the three (03) basic questions a general consumer have?
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b) Define the cardinal measure of satisfaction.

c) What do you understand by the term low of diminishing marginal utility?	
d) i. Define the term budget constraint.	
ii. In a clearly labeled diagram illustrate the consumer equilibrium when he enjoys two ecosystem services	
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e) Illustrate graphically the effect of reducing prices of two ecosystem services on consume equilibrium.	 Эг
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03.a) What are the conditions of non-attenuated property rights?
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b) Distinguish between long run supply and short run supply.
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d) Explain as to why public goods like biodiversity cannot be provided through a market mechanism.
e) State five (05) properties of "isoquant" curves
(10 marks)
04. a) What do you mean by the terms given bellow?
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04. a) What do you mean by the terms given bellow? i. The low of demand ii The low of supply

b) Factors determining the demand for a natural park for recreation
c) Distinguish between normal good and an inferior good.
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d) Distinguish between substitutes and complements.
d) Distinguish between substitutes and complements.
e) Graphically illustrate the effect of income increase of consumers on demand for wildlife for
recreation
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