



THE OPEN UNIVERSITY OF SRI LANKA
B. Sc. DEGREE PROGRAMME - LEVEL 4- 2012/2013
COURSE TITLE: FUNDAMENTALS OF ECOLOGY
COURSE CODE - ZOU 2265/ZLU 2281
NO BOOK TEST

REGISTRATION NUMBER

DATE: 06.04.2013

TIME: 9.00 AM-10.30 AM

Answer all questions in both parts A and B. Answers for part A should be indicated with a "X" in relevant cage of the answer sheet provided.

Both part A and B should be handed over after the examination.

Answer sheet for PART A

Question no	a	b	c	d	Question no	a	b	c	d
1.1					1.16				
1.2					1.17				
1.3					1.18				
1.4					1.19				
1.5					1.20				
1.6					1.21				
1.7					1.22				
1.8					1.23				
1.9					1.24				
1.10					1.25				
1.11									
1.12									
1.13									
1.14									
1.15									

PART B

2.

2.1. Define the terms habitat, niche, and ecosystem.

Habitat:

.....
.....

Niche:

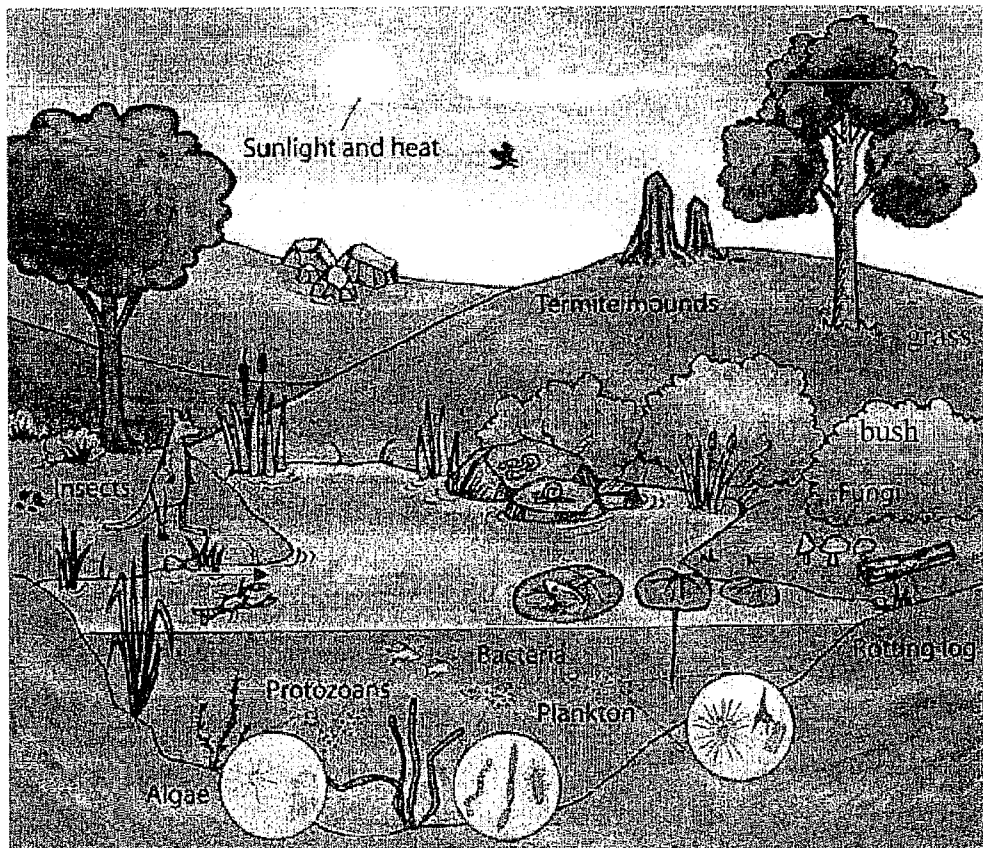
.....
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Ecosystem:

.....
.....

2.2. What are the two main types of ecosystems found in the picture given below?

.....



2.3. According to Tansley, ecosystem recognizes three subsystems. Identify these subsystems using the above picture and give all the relevant examples for each system.

- a).....
.....
- b).....
.....
- c).....
.....

2.4. Name the two essential processes that govern the functioning of these three subsystems and explain it briefly.

- a).....
.....
- b).....
.....

2.5. State six abiotic factors and categorized them as

- a) Physical and chemical factors:
 - Physical
 - Chemical factors
- b) Climatic and edaphic factors
 - Climatic factors
 - Edaphic factors

2.6. Fill the blank using appropriate words.

Biosphere is believed to extend up to a height ofof the atmosphere, and a depth of below the surface of ocean and a few below the soil.

2.7. What are the four major layers of the atmosphere?

.....

2.8. List five nutrient cycles in nature. Out of these name two sedimentary cycles and three gaseous cycles.

.....

Sedimentary cycles

Gaseous cycles

.....

2.9. Nutrient cycles basically consist of **reservoirs** and **pathways**. Name two main reservoirs found in nature.

.....

.....

2.10a.

What are the four main characteristics of an ecosystem?

.....

.....

.....

.....

2.10b

Name the main producers of Muthurajawela marsh-Negombo lagoon wetland ecosystem.

.....

2.10c.

What are the main environmental factors that keep changing in these habitats

.....

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