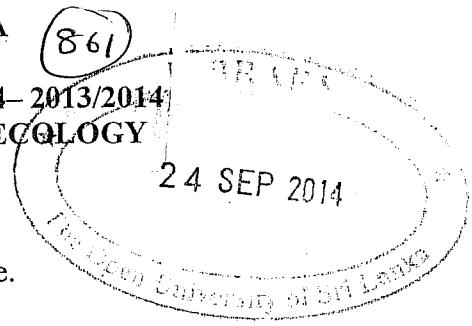


SAL/S95

THE OPEN UNIVERSITY OF SRI LANKA  
DEPARTMENT OF ZOOLOGY  
B. Sc. DEGREE PROGRAMME - LEVEL 4 - 2013/2014  
COURSE TITLE: FUNDAMENTALS OF ECOLOGY  
COURSE CODE - ZLU 2281  
NO BOOK TEST (NBT)



**PART B**

2.

2.1. Define the terms ecosystem, food web, trophic level and niche.

Ecosystem:

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.....

Food web:

.....

Trophic level:

.....  
.....

Niche:

.....

2.2 Name the two essential processes that govern the functioning of ecosystem".

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2.3. List the types of food chains found in nature with relevant examples.

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2.4. Explain the three different forms of ecological pyramids.

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2.5. Draw an example of one type of ecological pyramid from the above 2.4 and label the trophic levels.

2.6a. Draw diagrams to show fundamental niche and the realized niche.

2.6b Explain briefly the difference between the above fundamental niche and the realized niche.

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2.7 "Human influenced environmental changes" effect the distribution and abundance of living organisms in a particular environment.

a) State a single word that denotes the terms "Human influenced."

.....

b) Give two examples which support the above statement.

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2.8. Organisms are found in a variety of environments/habitats, such as hot deserts, cold polar regions, temperate and tropical climates. Some prefer sunlight/ darkness or shade. Existence of organisms in these habitats, largely depend on their ability to **tolerate** these environmental factors. Accordingly **Shelford's Law of tolerance** have been put forward.

a) Explain the **Shelford's Law of tolerance**

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2.8b. Draw the relevant diagram to explain 2.8a above.

2.9. List the common characteristics of the Muthurajawela marsh – Negombo lagoon wetland ecosystem.

1.....  
2.....  
3.....  
4.....

2.10. Name the main producers in the above ecosystem.

1.....  
2.....  
3.....  
4.....

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