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THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF ZOOLOGY
B. Sc. DEGREE PROGRAMME - LEVEL 4 - 2016/2017
COURSE TITLE: FUNDAMENTALS OF ECOLOGY
COURSE CODE -ZLU2281

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3 JUN 2017



THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL CENTRE
EXAMINATION

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2. NO BOOK TEST

2.1

a) Define the terms ecosystem and biosphere.

Ecosystem:.....

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Biosphere.....

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b) List the main components and processes of an ecosystem.

(i) Components:.....

(ii) Processes:.....

c) Explain briefly the above 2.1 b (i) and 2.1 b (ii).

Components

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2.2 a) State the three main methods that an ecologist can use to study about organisms.

- i.....
- ii.....
- iii.....

b) Looking at the diagram given below

(i) Identify the major concept that is represented in Figure 1.

(ii) Explain the named concept in 2.2b (i) in detail.
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(iii) Identify the major anthropogenic threat in Figure 1.....

(iv) Name the trophic levels of each organism given in Figure 1.

A..... B.....

C..... D.....

E.....

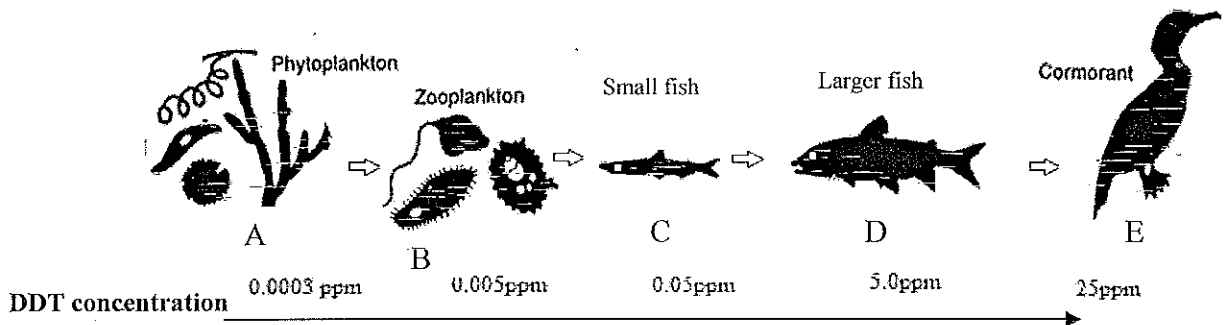


Figure 1

v) Draw a fully labeled diagram (trophic levels) to show the energy pyramid representing the organisms in the above ecosystem (Figure 1).

2.3

a) Explain the term habitat.

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b) According to the **Law of tolerance** each physico-chemical factor has three critical values. Explain this using a diagram of a tolerance curve.

2.4

a) Name the two main phases of the carbon cycle.

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b) List the main processes of a biogeochemical cycle which shows the association with thunder showers and lightning.

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c) List five nutrient cycles in nature. Out of these name two sedimentary cycles and two gaseous cycles.

i) Nutrient cycles.....

ii) Sedimentary cycles

iii) Gaseous cycles

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