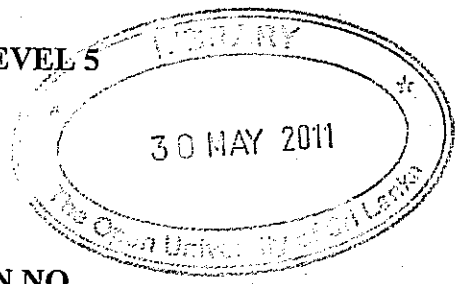


THE OPEN UNIVERSITY OF SRI LANKA
B.Sc./B.Ed. DEGREE PROGRAMME 2010/ 2011 – LEVEL 5
PARASITOLOGY - ZOU 3164 / ZOE 5164
OPEN BOOK TEST 1
DATE: 18th SEPTEMBER 2010
TIME: 11.00 AM – 12.00 NN



REGISTRATION NO.

PART B (50 marks)

Questions 2 - Write answers within the space provided.

2.1 List the four types of symbiotic associations found in the animal world. For each type of association, give two (02) characteristic features and one (01) example.

i)

Characteristic features:

.....
.....

Example:

ii)

Characteristic features:

.....
.....

Example:

iii)

Characteristic features:

.....
.....

Example:

iv)

Characteristic features:

.....
.....

Example:

2.2 "X" is a parasite that lives in the human. Based on the information given below, answer the questions 2.2.1 and 2.2.2.

- X has a direct life cycle.
- X lives in the lumen of the human alimentary tract.
- X has a life cycle stage that pass to the external environment in human faeces.
- Humans acquire an infection of "X" through the oral mode.
- X has a variety of adaptations for the parasitic mode of life.

2.2.1 Explain the need and identify the broad categories of morphological and physiological adaptations "X" is likely to possess for the following.

- a) To live in the alimentary tract of human.

Explain why X would need adaptations to live in the human alimentary tract:

Identify morphological/physiological features that would help "X" to live in this habitat:

- b) To transmit from one human to another.

Explain why X would need adaptations to transfer from one host to another:

Identify morphological/physiological features that would help "X" during transmission:

2.2.2 Explain briefly how the following measures would help in the control of an infection with parasite X.

a) Providing latrines to the community:

b) Avoiding eating uncooked vegetables:

c) Giving medical drugs to the infected person:
