



THE OPEN UNIVERSITY OF SRI LANKA
B.Sc. DEGREE PROGRAMME – LEVEL 4 – 2009/2010
COURSE TITLE : FUNDAMENTALS OF ECOLOGY
COURSE CODE : ZOU 2265
NO BOOK TEST

DATE : 5th DECEMBER 2009

TIME : 11.00 AM – 12.00 NOON

REGISTRATION NUMBER :

Answers should be written within the space provided.

PART 'B'

1.1. Define the term "habitat" and "niche".

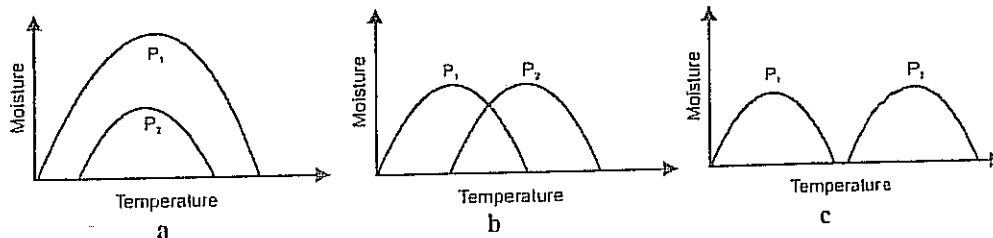
Habitat

.....
.....
.....
.....

Niche

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.....
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.....

1.2. Following figures a, b and c show various possible niche relationships, between species P1 and P2 with respect to two variables temperature and moisture.



Name the niche relationships seen in a, b and c.

a:

b:

c:

1.3. What is meant by fundamental niche and realized niche?

Fundamental niche:

.....
.....
.....
.....

Realized niche:

.....
.....
.....
.....



1.4. Name the two niche characteristics that are important with regard to competition.

1.

2.

1.5. Question is based on session "species in their environment". Fill in the blanks.

Speciation is the evolutionary process by which a new biological species arise.

Speciation in most organisms is brought about by interaction of three processes.

They are (a).....(b)

and (c)

The phenomenon of separation of demes is the first step leading to the development



of a new species. This phenomenon is known as

This process occurs in two main ways. They are a).....

and In nature speciation occurs in three

different ways. They are (a).....,b)..... and

(c)