

THE OPEN UNIVERSITY OF SRI LANKA

FOUNDATION PROGRAMME IN SCIENCE - 2008/2009

PSF 2305/PSE 2305 – BOTANY II

ASSESSMENT TEST III (OPEN BOOK TEST )

DURATION: ONE (01) HOUR

REGISTRATION NO.....

DATE: 6<sup>th</sup> March 2009

TIME : 1.00 p.m. - 2.00 p.m.

ANSWER ALL QUESTIONS ON THE SPACE PROVIDED

Total No. of questions - 05

Total No. of pages - 03

01. State whether the following statements are True or False.

- (a) A community is a group of individuals that are interacting with one another. ....
- (b) Population density is the size of any population in relation to a specific time. ....
- (c) Natality, explains the production of new individuals of any organism per unit time. ....
- (d) Lithosphere provides the soil to the global environment. ....
- (e) In commensalism, one partner is benefited and the other is neither helped nor harmed. ....
- (f) Climax communities arise by a process called succession. ....
- (g) Cuscuta is an example for a plant showing Naturalism. ....
- (h) The shape of the Pyramid of energy is sometimes upright. ....
- (i) The main source of nitrogen for plants is gaseous nitrogen. ....
- (j) Tundra is a biome with coniferous plants. ....

02. Fill in the blanks with appropriate word/words.

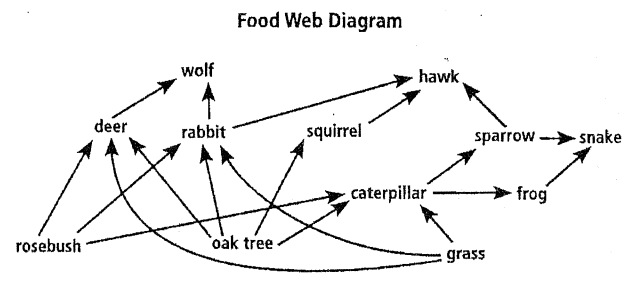
- (a) The place where an organism lives is referred to as the ..... of that organism.
- (b) The ..... is the space related with the trophic position of an organism.
- (c) In an energy pyramid, bottom level represents.....
- (d) An example of a .....in a pond ecosystem is a frog.
- (e) An ..... is made up of both living things and the physical environment.



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- (f) Living things in an ecosystem are ..... factors.
- (g) A ..... is an organism that converts heat or light energy into chemical energy.
- (h) A ..... is an organism that breaks down dead plants and animals into simpler compounds.
- (i) A ..... is made up of many overlapping food chains.
- (j) In ....., two organisms benefit in a relationship.

03.



Based on the diagram given above, answer the following questions.

- (a) What do the arrows in the food web represent?  
.....
- (b) List two producers and three primary consumers in the food web.  
Producers.....  
Primary consumers .....
- (c) Draw three food chains that include the sparrow.
  - i. ....
  - ii. ....
  - iii. ....
- (d) Name two organisms that could be found in the lowest numbers in this food web.  
.....

04. Define the following terms.

(a) Population

.....  
.....

(b) Succession

.....  
.....

(c) Predation

.....

(d) Primary consumers

.....

(e) Biosphere

.....

.....

05. Name the three types of ecological pyramids in nature and describe each very briefly.

I. ....

.....

.....

II. ....

.....

.....

III. ....

.....

.....

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