

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry Degree Programme 2013 Admission

VI<sup>th</sup> Semester Final Examination-July 2016

Cat. No: Fmau.3211

Title: Environmental Management (2+0)

Marks: 50.00

Time: 2 hours

## I. Fill up the blanks

(10 x 1=10)

1. A \_\_\_\_\_ is a group of individual organisms of the same species in a given area
2. \_\_\_\_\_ is the lowest layer of atmosphere, lying close to the earth's surface
3. Symbiosis in which one organism is inhibited by the other but the latter remains unaffected is known as \_\_\_\_\_
4. \_\_\_\_\_ is a uniform interbreeding population spread over time and space

## Define

5. Define ecology
6. Define rhizosphere
7. Define Phytoremediation
8. Define Biome
9. What is thermoperiodism

## True/False

10. Allen's rule state that, temperature effect the absolute size of an animal and the relative proportions of various body parts

## II Write short essays on any FIVE.

(5 x 2=10)

1. Mycorrhizae.
2. Xerophytes.
3. Population density.
4. Phenology.
5. Biological Diversity Act.
6. Species Diversity.
7. Communities.

## III Explain any FIVE of the following

(5 x 4=20)

1. Define a biotic community .Describe the various features that characterize a community.
2. Discuss the effect of topographic factors on distribution of plants.
3. What is soil profile? Describe briefly the factors that affects soil formation.
4. Define ecosystem .Explain the structure and function of an ecosystem.
5. Explain about prevention and control of air pollution.
6. What are the chief sources of water in India? Discuss the status of water quality in major rivers of India.
7. River pollution management strategies.

6. Organization pattern in SAU's
7. List out five national forestry research institutes with their location

(1 x 10=10)

**IV. Write essay on ANY ONE**

1. What is a design and analysis? Explain about factorial design with reference to forestry experiments.
2. Develop a research plan for improvement and conservation of sandal in India

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