

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2013 Admission

IIIrd Semester Final Examination- February-2015

Cat. No: Safo.2107

Marks: 50

Title: Forest Ecology, biodiversity and Conservation(1+1)

Time: 2 hours

I) Fill up the blanks

(10 x 1=10)

1. Interactions of plant and Rhizobium are one of the examples of _____ type of interaction
2. Boreal forests are also called as _____
3. The general appearance of a forest community is known as _____
4. The indicator species used to detect acid rain is _____
5. The largest number of domesticated species is found in _____ family
6. The term biological diversity was coined by _____ in the year _____
7. The most diverse group of microbes is _____
8. Drip tipped leaves are a common feature of _____ type of vegetation
9. Succession which originates on rock surface is known as _____

State True or False

10. In India biodiversity has deep cultural values

II Write short notes on any FIVE

(5 x 2=10)

1. Shelford's law of tolerance
2. Pond ecosystem
3. Bio climate
4. Forest succession
5. Biogeochemical cycle
6. In-situ conservation approach
7. Kraft's classification of trees by crown classes

III Write short essays on any FIVE of the following

(5 x 4 =20)

1. Define ecosystem .What are the sub components of the same ?Explain
2. What is centre of diversity and what are the criteria to call a region as a centre of diversity. Explain
3. Differentiate between alpha ,beta and gamma diversity with suitable examples
4. Name and explain major approaches for conservation of biological diversity
5. Elucidate nutrient cycling which occurs in tropical forest ecosystems with suitable examples
6. What is population ecology .Elucidate interactions between species in a community
7. What are ecological pyramids. Describe any one of them

IV Write essay on ANY ONE

(1 x 10=10)

1. What is habitat fragmentation. What is the sequence of the same. Differentiate between habitat fragmentation and habitat loss .What are the effects of the habitat fragmentation on conservation. Explain.
2. What is biome Write about the types of biomes in India
