

KERALA AGRICULTURAL UNIVERSITY

B.Sc.Hons (Forestry) 2014 Admission

IIIrd Semester Final Examination-February -2016

Cat. No: Safo. 2107

Marks: 50.00

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

Time: 2 hours

I Answer the following

(10 x 1=10)

1. The range of environment a taxa can tolerate is called _____
2. Study of a group of species in relation to its environment is called _____
3. Father of ecology is _____
4. Appearance of change of vegetation is called _____
5. Pattern of movement of energy in an ecosystem is _____

State Whether True or False

6. Sympatric speciation occurs when populations become physically separated from each other
7. Fire and logging favours primary succession
8. Gross primary productivity does not include respiration loss
9. The unique functional position of each population is called niche
10. Gulf of Mannar is the first biosphere reserve in India

II Answer any Five questions

(5 x 2=10)

1. Succession-comment
2. Differentiate Ex-situ and In-situ conservation
3. Importance of Biosphere reserve
4. Explain endemism
5. Causes of species extinction - Explain
6. Differentiate Autecology Vs Synecology
7. Differentiate realized niche Vs fundamental niche

III Write short notes any Five questions

(5 x 4=20)

1. Explain energy flow in an ecosystem with diagram
2. Briefly explain the different growth models of population
3. Discuss some of the major conservative initiatives taken both nationally and internationally
4. Explain in detail about IUCN categories of species extinction
5. Elaborate different types of ecological pyramids with example
6. Explain water and nitrogen cycle in forest ecosystem with diagram
7. Discuss the different methods of biodiversity conservation

IV Write essay on Any ONE

(1 x 10=10)

1. Elaborate in detail about primary and secondary succession and their significance in forest ecosystem.
2. Discuss elaborately the major ecosystem with their salient features in India as well as in the world.