KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Forestry Degree Programme.2014 Admission.
IVth Semester Final Examination- August .2016

Cat. No: Safo.2208

Marks: 50

Title: Agroforestry Systems and Management (2+1)

Time: 2 hours

I Fill up the blanks (10 x 1=10)

1. The direct or indirect effect of one plant upon another through the production of chemical inhibitors is _____.

2. Taungya was first introduced by _____

3. Integration of trees with grasses is known as _____

4. Planting protein rich trees on or around farmlands and range lands for cut and carry fodder production is _____.

5. Home gardens are suitable for _____ areas.

6. Non legumes fix atmospheric nitrogen in association with the help of _____

7. The process of cycling of nutrients from soil to the plant and back to the soil is _____

8. Leguminous trees fix atmospheric nitrogen through association of roots with _____

9. Fuel wood trees should have _____

10. All India Co-ordinated Research Project on Agroforestry was started during _____

II Write short notes on any Five. (5 x 2=10)

1. Hedgerow intercropping.
2. Protein bank.
3. Alley cropping.
4. Nutrient cycling.
5. Allelopathy.
6. Crown architecture.
7. Carbon sequestration.

III Write short essay on any FIVE (5 x 4=20)

1. Write a short note on demands and supply of fuel wood, fodder and timber in India.
2. Narrate the history of agroforestry in India.
3. Briefly write about different types of taungya and its advantages.
4. Describe the design and management of windbreaks.
5. What is the role of agroforestry in soil fertility?
6. What are the key features of agroforestry diagnosis and design? Briefly write the procedures of macro D&D
7. How do you generate rural income and meet industrial raw material requirements through agroforestry.

IV Write Essay on any ONE (1 x 10=10)

1. Discuss in detail about nutrient cycling in agroforestry with a schematic diagram.
2. a) Explain about the fertilizer use in agroforestry. b) Suitable agroforestry systems for different wastelands.

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