



KERALA AGRICULTURAL UNIVERSITY

B.Sc.(Hons).Forestry 2016 Admission

IV Semester Final Examination-July 2018

Safo.2209

Agroforestry Systems and Management (1+1)

Marks: 50

Time: 2 hours

1 Fill up the blanks (10x1=10)

- 1 Temporal arrangements of classification of agroforestry systems was proposed by _____
- 2 Agroforestry normally involved at least _____ components
- 3 _____ are the belt of rows of trees established at right angles to the prevailing _____ Wind direction.
- 4 Taungya system is a modification of _____
- 5 Home gardens are suitable to _____ rain fall areas in tropical forest

State whether the following statements are true or false

- 6 Homegardens are characterized by high species density and diversity
- 7 In Commensalistic interaction, both the components are benefited
- 8 Lowest layer in homegardens will be less than 1 meter height
- 9 Taungya systems is a example for coincident type of temporal arrangement
- 10 Manipulation of tree crown is only option for minimizing negative interaction in Agroforestry.

II Write short notes/answers etc on ANY FIVE (5x2=10)

- 1 Ideotypes in Agroforestry
- 2 Reclamation of soils through Agroforestry systems
- 3 Alley cropping
- 4 Multipurpose Wood lots
- 5 Characteristics of Multipurpose trees
- 6 Plantation crop combinations
- 7 Synergistic and Inhibitory interactions

III Answer any FIVE of the following. (5x4=20)

- 1 Types of Taungya systems
- 2 Hedgerow intercropping and its effects on soil properties and conservation
- 3 Design Characteristics of wind breaks
- 4 Role of Agroforestry in watershed management
- 5 Nutrient cycling in Agroforestry systems
- 6 Species interactions in Agroforestry systems
- 7 Characteristics to be considered for selection of species in Alley cropping

IV Write an essay on any ONE of the following (1x10=10)

- 1 Structure and Composition of Tropical Home gardens with figure
- 2 Ecosystem services generated from Agroforestry systems
