

SH-I/SA/1102/19

B.Sc. 1st Semester (Honours) Examination, 2019-20

FORESTRY

Course ID : SA1102

Course Code : SH-SA-1102

Course Title : Principles of Agroforestry

Time: 2 Hours

Full Marks: 50

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Write a definition or short answer of *any ten* of the following: 1×10=10
- (a) Agri-silvicultural system
 - (b) Home Garden
 - (c) Alley Cropping
 - (d) Mulching
 - (e) Mono Cropping
 - (f) Write down 3 examples of Fodder tree species (Botanical Name).
 - (g) Community forestry
 - (h) Supplementary interaction
 - (i) Write down 2 examples of nitrogen fixing tree species (Botanical Name).
 - (j) Agri-silvi horticultural system
 - (k) Allelopathy
 - (l) Aquaforestry
 - (m) Windbreaks
 - (n) ICRAF stands for
2. Write short note/define *any ten* of the following: 2×10=20
- (a) What is Pruning and what are the benefits of pruning in agroforestry practice
 - (b) Define mutualism with suitable example.
 - (c) Taungya
 - (d) Benefits of Aquaforestry
 - (e) What are the disadvantages of shifting cultivation?
 - (f) Advantages of Shelterbelt
 - (g) Belowground interactions in Agroforestry system

- (h) Disadvantage of Horti-silviculture system
- (i) Objectives of Social Forestry
- (j) Agroforestry classification on the basis of arrangement of components
- (k) What is Windbreaks? Write down 2 examples of Windbreaks tree species (Botanical Name).
- (l) Advantages of Mulching
- (m) Benefits of home garden
- (n) Disadvantages of Agri-Silvicultural system
- (o) Role of farm forestry on carbon sequestration

3. Write down in brief *any four* of the following:

5×4=20

- (a) What are the basic objectives and goals of National Agroforestry Policy 2014?
 - (b) Difference between Agroforestry and Social forestry
 - (c) Role of women in Indian Agroforestry development
 - (d) Direct and indirect benefits of Agroforestry
 - (e) Components of Agroforestry
 - (f) How Agroforestry play role in Nutrient cycling and Microclimate amelioration?
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