



Registration No:
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AR-2018

B.Sc (Ag)

FIRST YEAR EXAMINATION-JULY 2019

FO-111

INTRODUCTION TO FORESTRY

Time : 2 Hours

Maximum : 50 Marks

(Answer **all** questions of Section – A)

SECTION – A

1. Fill up the blanks

10x0.5=5.0 Marks

- i The plant which grow in shade is called_____ .
- ii The plant that normally grow in habitats where water is neither scarce nor abundant is known as_____ .
- iii The plants that grow on highly saline soil (with high osmotic concentration) is called as_____ .
- iv Biotic inter relationship, where the two different species associated for their mutual benefit is called _____ relationship .
- v The plant which thrive in quite a wide range of temperature from near freezing to about 55o C are called as _____ plants .
- vi The land management system in which trees and grasses are managed for wood and rearing of domestic animal respectively is called as _____ system.
- vii Agroforestry has defined as a sustainable _____ management system.
- viii _____ wood is the important and major produce of energy plantation in abnormal soil.
- ix *Bambusa vulgaris* is planted as soil erosion _____ plant in slopes.
- x DBH, signifies_____ of a tree, which is generally at 1.37m(4.5 ft) height above the tree base.

2. Choice the one correct answer out of three multiple. 10x0.5=5marks

- a) An outgrowth from the base of a tree connecting it to the root is known as
(a) Buttressing (b) Mosaic (c) Bark form
- b) The earth's relief has not encompassed
(a) Slope (b) Altitude (c) Climate
- c) Epiphytes plants are commonly found in
(a) Arid Forests (b) Wet evergreen forest (c) Cold forest
- d) NeemTree (*Azadirachta indica*) has preferred sunlight for proper growth is belongs to the group
(a) photophilous (b) Sciophilous (c) heliophobous
- e) Tending operation in forest does not include
(a) Soil working (b) Weeding (c) Thinning
- f) The tree farming on the farm land outside the normal forest area is known as
(a) Afforestation (b) Silviculture (c) Agro forestry
- g) The large tree with straight boles free of defects, branches and circular cross sections are called as
(a) Pole tree (b) Veneer tree (c) Wolf tree
- h) Sum total of dry matter accommodated in above and underground plant parts is referred as
(a) Litter stock (b) Carbon stock (c) Biomass
- i) A felling made in an immature stand for the purpose of improving the growth and form of the remaining trees without permanent breaking the canopy is defined as



- (a) Cleaning (b) Thinning (c) Girdling
j) Tree fodder for grazing animals in arid region of India
(a) *Casuarina equisetifolia* (b) *Prosopis cineraria* (c) *Aegele marmelos*

3. Match the right choice of Group A with Group B, 10x0.5=5marks

Group A	Group B
1. Stool	a. Vigorous tree with bad growth form, covered more space and is harming neighbourly trees.
2. Under growth	b. Removing almost all crown of a tree.
3. Wolf tree	c. The aggregate of the forest trees in an area of the country.
4. Topping	d. An area of the forest deliberately prohibited for hunting, shooting and trapping
5. Silviculture	e. A plant which is the first to invade in a barren area.
6. Refuge	f. Science of forest tree cultivation.
7. Rain forest	g. A living stump producing sprouts
8. Pioneer plant	h. A patch of land being used for grazing.
9. Pasture	i. A new group of plants that invades a new territory.
10. Silviculture	j. Lowest stratum vegetation of the forest floor
	k. Evergreen forest associated with the climate of high humidity and abundant precipitation.

4. Define or explain with example of the following 5x1=5marks
- Define forest with its two major roles.
 - Ecosystem
 - Radiometer
 - Silviculture & fruit plant species in different strata of a typical home garden.
 - Block plantation of *Acacia auriculiformis*.

SECTION – B

(Attempt any **five** questions. Each question carries equal marks) 5x6=30

- Write characteristics of tree species suitable for agroforestry system
- Describe the purpose and some inevitable problems of tending operations in Indian forest.
- What you mean by Coppicing and illustrate different types of coppice system in forests.
- Write the major consequences of deforestation in Indian sub continent.
- Write the advantage & disadvantage of artificial forest regeneration more particularly on Planting methods.
- Describe the Pros & cons of shadow and single pole method of tree height measurement.