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**GIET UNIVERSITY, GUNUPUR – 765022**  
**B. Sc. (Ag.) (First Semester) Examinations, March – 2023**  
**FO-111 – Introduction to Forestry**

Time: 2 hrs

Maximum : 50 Marks

**The figures in the right hand margin indicate marks.**

**PART – A**

**Q.1. Fill in the blanks with suitable word / figure. (0.5 x 10 = 5 Marks)**

- a. ANR is abbreviated as \_\_\_\_\_
- b. The non instrumental methods of height measurement include \_\_\_\_\_ methods.
- c. Name one tree species having medicinal value \_\_\_\_\_
- d. The weeding in a forest is done in \_\_\_\_\_ stage of the tree
- e. DBH is elaborated as \_\_\_\_\_
- f. The tree species known as 'King of Timbers' is \_\_\_\_\_
- g. The forests in which the age difference of trees is more than 20 years is called as \_\_\_\_\_.
- h. The tree species used for making bidi wrapper is \_\_\_\_\_
- i. In case of sloping ground, the breast height is measured at \_\_\_\_\_ side
- j. The cleaning operations in a forest are carried out in \_\_\_\_\_ stage of tree.

**Q. 2. Define (or) Explain the following in one or two sentences. (1 x 5 = 5 Marks)**

- a. Allelopathy
- b. Bole height
- c. Form class
- d. Homegarden
- e. Protection Forestry

**Q3. Match the following (0.5 x 10 = 5 Marks)**

Column – A		Column – B	
(a)	Afforestation	(i)	An area where seedlings are raised in beds
(b)	Nursery	(ii)	large, coarse and mishappen trees
(c)	A N <sub>2</sub> -fixing tree species	(iii)	Raising forest by artificial means in a new area
(d)	Reforestation	(iv)	Seashore protection
(e)	Wolf trees	(v)	<i>Santalum album</i> (Sandalwood)
(f)	Diameter measurement	(vi)	Caliper
(g)	Shelterbelts	(vii)	<i>Acacia auriculiformis</i> (Golden shower)
(h)	Essential oil	(viii)	Restocking of forest by artificial means
(i)	Bidi wrapping	(ix)	<i>Mimusops elengi</i>
(j)	Bullet wood	(x)	<i>Diospyrous melanoxylon</i>

**Q4. Write True or False against each statement**

**(0.5 x 10 = 5 Marks)**

- a. Removal of branches of trees is known as thinning.
- b. The study of life history and general characteristics of forest trees is known as Forestry.
- c. The practice of forestry in and around farmlands is known as taungya.
- d. The stumps are prepared from the seedlings of 1-2 cm collar diameter.
- e. The period of tree growth from seedling to maturity is known as rotation period.
- f. The quarter girth formula gives only 68% of the cubic volume of tree.
- g. The age of a standing tree can be measured by Swedish bark gauge.
- h. Sal is a nitrogen fixing tree species.
- i. Maharukh is known as the king of timber.
- j. Homegardens are most common in Humid and sub-humid regions.

**PART – B**

**Attempt ANY FIVE questions. All question carries equal marks**

**(6 x 5 = 30 Marks)**

5. Describe about different Agro-forestry systems prevalent in India.
6. Detail about the cultivation practices of *Bambusa vulgaris*.
7. What are the different methods of regeneration of Forest? Describe the factors affecting seed germination in case of natural regeneration.
8. What do you mean by thinning? Detail about the different thinning operations carried out in forest.
9. Describe about direct and indirect methods of height measurement of forest trees.
10. Brief about the following
  - a) Assisted Natural Regeneration
  - b) Pruning
  - c) Social Forestry

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