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Brainware University
398, Ramkrishnapur Road, Barasat
Kolkata, West Bengal-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(Ag)-Hons-2024

Course Name – Introduction to Forestry

Course Code - CC-BAG174(T)

(Semester I)

Full Marks : 50

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 20=20

1. Choose the correct alternative from the following :

(i) What is the branch of Silviculture ?

- a) Agronomy
- c) Forestry

- b) Soil Science
- d) Entomology

(ii) Herbs are defined as:

- a) stems are always green and tender
- c) large woody plants and definite crown

- b) Woody plants but no definite crown
- d) have special structure to climb on supports

(iii) Shrubs are defined as:

- a) stems are always green and tender
- c) large woody plants and definite crown

- b) Woody plants but no definite crown
- d) have special structure to climb on supports

(iv) Trees are defined as:

- a) stems are always green and tender
- c) large woody plants and definite crown

- b) Woody plants but no definite crown
- d) have special structure to climb on supports

(v) Climbers are defined as:

- a) stems are always green and tender
- c) large woody plants and definite crown

- b) Woody plants but no definite crown
- d) have special structure to climb on supports

(vi) What is Crown?

- a) basal part of the tree
- c) top part of the tree from which branches grows

- b) Root system
- d) Branches

(vii) Forest regeneration can be classified into:

- a) 2 types
- c) 4 types

- b) 3 types
- d) 5 types

(viii) How can natural regeneration be done?

- a) seeds
- c) root suckers

- b) coppices
- d) all of these

- (ix) Seed production in plants depends on which of the following factors?
 a) Species
 b) Age
 c) Size of crown
 d) All of these
- (x) In which trees seed dispersal is done by wind?
 a) Conifers
 b) Mangrove tree
 c) Oak
 d) Zizyphus
- (xi) In which trees seed dispersal is done by water?
 a) Conifers
 b) Mangrove tree
 c) Oak
 d) Zizyphus
- (xii) In which trees seed dispersal is done by gravity?
 a) Conifers
 b) Mangrove tree
 c) Oak
 d) Zizyphus
- (xiii) In which trees seed dispersal is done by animals?
 a) Conifers
 b) Mangrove tree
 c) Oak
 d) Zizyphus
- (xiv) What is the primary purpose of artificial regeneration in forestry?
 a) Afforestation
 b) Reforestation
 c) Deforestation
 d) Both Afforestation and Reforestation
- (xv) What is the primary purpose of pruning in horticulture?
 a) to raise crop on the land
 b) to maintain quality of timber
 c) to produce seed
 d) None of these
- (xvi) Coppices are defined as:
 a) the new flushes from the cut portion of plants
 b) seeds
 c) stems
 d) root stock
- (xvii) Where did Taungya system evolve?
 a) India
 b) China
 c) Burma
 d) Australia
- (xviii) Choose the standard Breast Height of plants in India.
 a) 1.36 m
 b) 1.33 m
 c) 1.37 m
 d) 1.38 m
- (xix) The term Basal Area of trees is related to:
 a) cross section of stem at breast height
 b) cross section of stem at the base
 c) Crown area
 d) none of these
- (xx) Identify the amount of Annual rainfall in Tropical Wet evergreen forests.
 a) >250cm
 b) <250cm
 c) <150cm
 d) >150cm

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Group-B

(Short Answer Type Questions)

2.5 x
 10=25

2. Construct a short note on Aquaforestry. (2.5)
3. Construct a short note on Home gardens. (2.5)
4. Illustrate the difference between agroforestry and social forestry. (2.5)
5. What are the constraints of agroforestry? (2.5)
6. Develop a short note about the thinning operation and its objectives. (2.5)
7. What are advantage and disadvantage of simple coppice system? (2.5)
8. Define Artificial regeneration and its objective. (2.5)
9. What are the Basic Steps in Artificial Regeneration? (2.5)
10. Compare between Dominant and Codominant trees. (2.5)

11. Explain mechanical thinning. (2.5)

OR

Explain the principle of similar triangles. (2.5)

Group-C

(Long Answer Type Questions)

5 x 1=5

12. Briefly explain the classification of agroforestry. (5)

OR

Interpret the considerations while selection of species in social forestry. (5)

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