

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
March/April-2025 (NEW COURSE)
Instrumentation, Forest and Forestry(Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1(A) Answer the following objective type questions (04)

- 1) What is the purpose of a Centrifuge?
- 2) Fill in the blank: The temperature in an autoclave is typically maintained at _____ degree celsius?
- 3) True/false: An incubator is used to maintain a constant temperature and humidity.
- 4) Full form of: RCF

Que.1(B) Answer in brief (Any one out of two) (03)

- 1) Explain the principle of sterilization using an Autoclave.
- 2) Write note on: Laminar flow hood.

Que.1(C) Write a Note (Any one out of two) (07)

- 1) Write about principle and application of Centrifuge.
- 2) Write the design, principle and function of Incubator.

Que.2(A) Answer the following objective type questions (04)

- 1) What is sustainable development?
- 2) Define the term "Forest Management".
- 3) _____ is the establishment of a forest or stand of trees in an area where there was no recent tree cover.
- 4) Name a common technique used for forest restoration.

Que.2(B) Answer in brief (Any one out of two) (03)

- 1) Discuss: Agroforestry
- 2) Write short note on Endemism.

Que.2(C) Write a Note (Any one out of two) (07)

- 1) Explain the different silvicultural systems and their advantages and disadvantages.
- 2) Explain Forest management.

Que.3(A) Answer the following objective type questions (04)

- 1) What is the perfect size of Herbarium sheet?
- 2) What is the function of staining solution?
- 3) Who designed the first Microtome?
- 4) What is the purpose of dehydration in microtechnique?

Que.3(B) Answer in brief (Any one out of two) (03)

- 1) Explain the significance of fixation in plant preservation
- 2) Write note on: Smear Method

- Que.3(C) Write a Note (Any one out of two) (07)**
1) Describe- Squashes method
2) Preservation techniques for Angiosperms.
- Que.4(A) Answer the following objective type questions (04)**
1) Scientific name of Giloy.
2) Name the plants used in Trifala?
3) Which part used for medicine of Withania somnifera
4) Clove is which part of plant body?
- Que.4(B) Answer in brief (Any one out of two) (03)**
1) Write note on Emblica officinalis.
2) Write note on medicinal value of Harde.
- Que.4(C) Write a Note (Any one out of two) (07)**
1) Write brief introduction, constituents and uses of Ginger.
2) Explain: In-situ conservation methods of medicinal plant.
- Que.5(A) Answer the following objective type questions (04)**
1) What is quickest method of lawn making?
2) Kitchen garden synonym is _____
3) What is Lawn?
4) Examples for formal garden?
- Que.5(B) Answer in brief (Any one out of two) (03)**
1) Write short note : Kitchen Garden.
2) Discuss the benefits of Indoor Gardening and its challenges.
- Que.5(C) Write a Note (Any one out of two) (07)**
1) Explain: Landscape gardening and Container gardening.
2) Explain the role of horticulture in environmental conservation.
