

**B.Sc. Semester - 5 (CBCS) Examination**  
**Oct/Nov - 2021 (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.
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**Q-1 (A) Answer the following objective type questions (04)**

- 1) Who invented Autoclave?
- 2) Is Incubator use for grow microbial culture? Yes or No.
- 3) To separate two miscible substances which instrument is used?
- 4) What is the function of HEPA filter in Laminar air flow?

**Q-1 (B) Answer in brief (Any one out of two) (03)**

- 1) Describe parts of Autoclave.
- 2) Write the working principle of Hot Air Oven.

**Q-1 (C) Write a Note (Any one out of two) (07)**

- 1) Write about principle and application of Centrifuge.
- 2) Write about principle and application of Laminar flow Hood.

**Q-2 (A) Answer the following objective type questions (04)**

- 1) What is Agro-forestry?
- 2) Forest is managed for which purposes?
- 3) What is Endemism?
- 4) Define Forest.

**Q-2 (B) Answer in brief (Any one out of two) (03)**

- 1) Silviculture
- 2) Endemism.

**Q-2 (C) Write a Note (Any one out of two) (07)**

- 1) Explain Deforestation.
- 2) Explain Forest management.

**Q-3 (A) Answer the following objective type questions (04)**

- 1) What is the perfect size of Herbarium sheet?
- 2) Why glycerine used for temporary slide making?
- 3) Who designed first Microtome?
- 4) Give name of two types of ordinary Microtome.

**Q-3 (B) Answer in brief (Any one out of two) (03)**

- 1) Describe: Whole mounting
- 2) Write note on: Smear Method

**Q-3 (C) Write a Note (Any one out of two) (07)**

- 1) Describe- Squashes method
- 2) Preservation techniques for Angiosperms.

**Q-4 (A) Answer the following objective type questions (04)**

- 1) Scientific name of Bili.
- 2) Which plants used in Trifala?
- 3) Give family name of *Withania somnifera*
- 4) Clove is which part of plant body?

**Q-4 (B) Answer in brief (Any one out of two) (03)**

- 1) Write note on *Emblica officinalis*.
- 2) Write note on medicinal value of Giloy.

**Q-4 (C) Write a Note (Any one out of two) (07)**

- 1) Write brief introduction, constituents and uses of *Tribulus terrestris*.
- 2) Give general account and uses of Cinnamon.

**Q-5 (A) Answer the following objective type questions (04)**

- 1) Give two plants name used in kitchen gardening.
- 2) What is lawn?
- 3) What is Dish Garden?
- 4) What is Bonsai?

**Q-5 (B) Answer in brief (Any one out of two) (03)**

- 1) Write short note on Lawn.
- 2) Describe: Formal Garden.

**Q-5 (C) Write a Note (Any one out of two) (07)**

- 1) How to create a Kitchen Garden?
- 2) Note on Indoor Gardening.

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