

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.

- 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 *Emblia 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.
