

B.Sc. Semester - 5 (CBCS) Examination
December -2020 (NEW COURSE)
Instrumentation, Forest and Forestry (Core)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any three of the following questions.
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Q.1 Answer the following questions as per instruction.**(A) Answer in very short.****04**

- (1) What is filled between two walls of incubator?
- (2) Which instrument is used to separate particles?
- (3) Autoclave is used for _____.
- (4) What is sterilization?

(B) Answer in brief (Any One)**03**

- (1) Write the design and application of Laminar flow.
- (2) Write the design and function of Incubator.

(C) Answer in detail (Any One)**07**

- (1) Write about principle, design and function of Oven.
- (2) Write about principle, design and applications of Autoclave.

Q.2 Answer the following questions as per instruction.**(A) Answer in very short.****04****❖ Fill in the blanks.**

- (1) If new plants are planted in an existing forest after destroying the trees is called _____.
- (2) The technology of combining agriculture with forestry is the concept of _____.
- (3) Forest is managed for _____ purposes.
- (4) What is Deforestation?

(B) Answer in brief (Any One)**03**

- (1) Agroforestry
- (2) Importance of forests.

(C) Answer in detail (Any One)**07**

- (1) Explain: Forest management.
- (2) Explain: Afforestation.

Q.3 Answer the following questions as per instruction.**(A) Answer in very short.****04**

- (1) Name the microtome in which glass or diamond knife is used for sectioning?
- (2) Who introducing the method of embedding in microtechniques?
- (3) What is microtomy?
- (4) Give the name of the two types of ordinary microtome.

(B) Answer in brief (Any One)**03**

- (1) Describe: Freezing microtome.
- (2) Write note on: Staining.

(C) Answer in detail (Any One)**07**

- (1) Explain: Microtomy
- (2) Techniques for preservation of Angiosperms.

Q.4 Answer the following questions as per instruction.

(A)Answer in very short.

04

- (1) In india earliest reference to the medicinal value of plants appears in _____.
- (2) Give the name of family *Terminalia bellirica*.
- (3) True and False: Clove are obtained from seeds.
- (4) Which medicinal plants fresh roots are used as excellent brain and nerve tonic?

(B)Answer in brief(Any One)

03

- (1) Write notes on the medicinal value of Bael.
- (2) Write brief account of spices: Cinnamon.

(C)Answer in detail(Any One)

07

- (1) Give the brief introduction, constituents and uses of *Tinospora cordifolia*.
- (2) Give the general account and uses of Ginger.

Q.5 Answer the following questions as per instruction.

(A)Answer in very short.

04

- (1) Kitchen garden synonymes is _____.
- (2) Give examples for formal garden.
- (3) Define: Indoor gardening.
- (4) What is lawn?

(B)Answer in brief(Any One)

03

- (1) Write short notes on: Dish garden.
- (2) List the important grasses being grown in lawns.

(C)Answer in detail(Any One)

07

- (1) How to create a garden design?
- (2)What is Bonsai? Give a detailed account of bonsai culture.
