

B.Sc. Semester - 5 (Remedial) (CBCS) Examination
Feb/Mar. -2021 (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) Fill in the blank: Autoclave is used for _____
- (2) Give the principle of Hot air oven.
- (3) Which instrument is used to separate particles?
- (4) The more massive a biological particle is, the slower it moves in a centrifugal field. Statement is true or false?

(B) Answer in brief. (Any one)**03**

- (1) Write the design and application of incubator.
- (2) Write the design and function of Autoclave.

(C) Answer in detail. (Any one)**07**

- (1) Write about principle, design and function of Laminar-flow.
- (2) Describe structure and methods of centrifugation.

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

- (1) What is A forestation?
- (2) Fill in the blank: Forest is managed for _____ purposes.
- (3) Forest connected with cultivation and breeding of forest plant is _____
- (4) The technology of combining agriculture with forestry is the concept of _____

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

- (1) Write notes on: Importance of forest.
- (2) Discuss approach of Aforestation

(C) Answer in detail. (Any one):**07**

- (1) Write an essay on: Agro-forestry.
- (2) Explain: Endemism.

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

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

(B) Answer in brief. (Any one)**03**

- (1) Write notes on rocking microtome.
- (2) Write notes on squash methods.

(C) Answer in detail. (Any one)**07**

- (1) Techniques for preservation of plant materials.
- (2) Explain: Whole mounting.

Q.4 Answer the following questions as per instruction.

(A) Answer in very short.

04

- (1) Which fruit is used in treatment of constipation?
- (2) Which medicinal plants fresh roots are used as excellent brain and nervetonic.
- (3) Name spice which is obtained from bark, write the botanical name and family in which this plant belongs.
- (4) Name two scientific technologies for conservation of medicinal plants.

(B) Answer in brief. (Any one)

03

- (1) Write brief account of spices : Cardamom.
- (2) Explain conservation strategies of medicinal plants.

(C) Answer in detail. (Any one)

07

- (1) Give the general account and uses of Turmeric.
- (2) Give the brief introduction, constituents and uses of *Embllica officinalis*.

Q-5 Answer the following questions as per instruction.

(A) Answer in very short.

04

- (1) What is lawn?
- (2) Fill in the blank: Home garden synonymes is _____
- (3) Fill in the blank: _____ is an unique Japanese Art.
- (4) Fill the blank: Growing of plants in suitable containers to beautify the areas inside the house, is popularly called _____

(B) Answer in brief. (Any one)

03

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

(C) Answer in detail. (Any one)

07

- (1) Explain: Gardening
- (2) Give a detailed account of bosai culture.
