

**S-1049**

Total Pages : 3

Roll No. ....

## **BOT-551**

**Cell Biology, Genetics, Biostatistics and Ecology**

M.Sc. Botany (MSCBOT)

2nd Year Examination, 2022 (Dec.)

**Time : 2 Hours]**

**Max. Marks : 70**

**Note :** This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### **SECTION-A**

**(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nineteen (19) marks each. Learners are required to answer any Two (02) questions only.

(2×19=38)

1. What are Biogeochemical Cycles? Describe in detail about Nitrogen cycle.

2. Define Ecosystem. Describe the structure and types of Ecosystem.
3. Write an essay on morphology of Chromosomes.
4. Give a detailed note on Chemistry of DNA with diagram.
5. Describe the normal biological spectrum of Raunkiaer's system of classification based on the position of the buds.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only. (4×8=32)

1. Differentiate between Food chain and Food web.
2. Write a short note on Fluorescence Microscope.
3. Differentiate between Local Area Network (LAN) and Wide Area Network (WAN).
4. Write a short note on water pollution.
5. Write a short note on Chloroplasts.

6. Write in brief about Standard Deviation.
  7. Write in brief about Induced Gene Mutations.
  8. Write a short note on Characteristics of Community ecology.
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