

**BOT-551**  
**CELL BIOLOGY, GENETICS,**  
**BIostatISTICS AND ECOLOGY**

**M.Sc. BOTANY (MSCBOT-12/13/16/17)**

Second Year, Examination-2020

Time Allowed : 2 Hours

Maximum Marks : 80

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**Note:** This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question 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 Twenty (20) marks each. Learners are required to Answer any two (02) Questions only. (2×20=40)

1. Describe the ultra structure of Plant cell.
2. Write an essay on genetic code.
3. Describe applications of computers in Biology.
4. Define ecosystem and describe its types
5. Describe air pollution in detail.

## **Section-B**

(Short answer type questions)

Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only. (4×10=40)

1. Describe special types of Chromosomes.
2. Describe the principle of Electron microscopy.
3. Describe law of Segregation.
4. Describe types of Mutation.
5. Describe the calculation of Variance.
6. Describe levels of Ecology.
7. Give classification of Ecosystem.
8. Explain causes of Climate change.

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(Long Answer type Questions)

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1. Describe the ultra structure of Plant cell.
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4. Define ecosystem and describe its types
5. Describe air pollution in detail.

## **Section-B**

(Short answer type questions)

Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only. (4×10=40)

1. Describe special types of Chromosomes.
2. Describe the principle of Electron microscopy.
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