

C057

Total Pages : 3

Roll No.

BOT-551

Cell Biology, Genetics, Biostatistics and Ecology

M.Sc. BOTANY (MSCBOT)

2nd Year Examination, 2022 (June)

Time : 2 Hours]

Max. Marks : 80

Note : This paper is of Eighty (80) 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 Twenty (20) marks each. Learners are required to answer any Two (02) questions only.

(2×20=40)

- 1.** Explain the ultra structure and functions of endoplasmic reticulum.

2. What is mutation? Give a detailed note on types of mutations.
3. Define community ecology. Describe its characteristics in detail.
4. What is air pollution? How it is caused? Discuss its effects and control measures.
5. Give a detailed note on genetic code.

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. Phase contrast microscope.
2. Write a note on Lampbrush chromosomes.
3. Chi-square test.
4. Differentiate between *In-situ* and *Ex-situ* conservation.
5. Fluid Mosaic Model.

6. Greer house effect.
 7. Differentiate between monohybrid cross and dihybrid cross.
 8. Threats to biodiversity.
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