

Total Pages : 3

Roll. No. :

Examination Session June-2022

(Fourth Semester)

MBOT-606

M.Sc. BOTANY (MSCBOT)

[Biostatistics and Ecology]

Time : 2 Hours]

[Max. Marks : 40

Note : This paper is of Forty (40) marks divided into two (02) Section 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 Ten (10) marks each. Learners are required to answer any two (02) questions only. $2 \times 10 = 20$

1. Define ecosystem. Discuss its structure in detail.
2. What are biogeochemical cycles ? Discuss in detail about the nitrogen cycle.
3. Define biodiversity and describe its types with examples in detail.
4. Explain the principles of chi-square test and its applications.
5. Give a detail account of methods of studying plant communities.

SECTION—B

(Short-Answer-Type Questions)

Note : Section 'B' contains eight (08) short-answer-type questions of Five (05) marks each. Learners are required to answer any four (04) questions only. $4 \times 5 = 20$

1. Discuss greenhouse effect.
2. Write a note on air pollution. Discuss its effects.
3. Raunkiaer's concept of life forms.
4. Differentiate between genetic diversity and species diversity.
5. Discuss in brief about eutrophication.
6. Differentiate between natural and artificial ecosystem with example.
7. Ozone layer and its significance.
8. Applications of computer in biology.
