

51212**B.Sc. (Pass Course) 5th Semester****Regular/Re-appear/Imp. Exam., 2022****BOTANY-II (ECOLOGY)****Paper Code : Bot. 5.2****Time Allowed : 3 Hrs.****[Max Marks: 40]**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after examination.

Note: Attempt five questions in all. Q.No. 1 is compulsory. All questions carry equal marks.

- i. Define- (1x8 =8)
- Autecology.
 - Ecotone
 - Biotic potential.
 - Carbon trading.
 - BOD
 - Mutualism
 - Give any two anatomical adaptations of xerophytes.
 - Name the substances responsible for Ozone layer depletion.

- Define ecology and ecological factors. Discuss the effect of light on plants as a climatic factor in detail. 8
- (a) Describe the physicochemical properties of soil. 5
(b) Write a note on Commensalism giving example. 3
- What are ecological adaptations? Describe the anatomical and morphological characteristics of hydrophytes with the help of well labeled diagrams. 8
- Write a notes on the following :
 - Ecades and ecotypes. 4
 - Population growth curves. 4
- (a) Define ecological succession, its types and its significance. Describe different stages of plant succession taking place on the surface of rock. 5
(b) Describe any two quantitative characteristics of community. <https://www.iguonline.com> 3
- (a) Describe the flow of energy in an ecosystem. 4
(b) Describe carbon cycle. Why is it called a perfect biogeochemical cycle? 4
- Write a notes on the following :
 - Greenhouse effect and global warming. 4
 - Biomagnification. 2
 - Eutrophication. 2
- Describe the vegetation types of India. Why India is considered as one of the hotspots of biodiversity? 8
