

5245

B.Sc. EXAMINATION

(Fifth Semester)

BOTANY

Paper II

Ecology

Time : Three Hours

Maximum Marks : 40

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. Attempt at least *two* questions from each Unit. All questions carry equal marks.

(Compulsory Question)

1. (a) Who gave the concept of Ecological Pyramid ?
- (b) Name *two* indirect Environmental Factors.
- (c) Define Amensalism .

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<https://www.cdluonline.com>

- (d) Define Ecotypes.
- (e) Pyramid of Number in forest Ecosystem is.....Shaped.
- (f) Name the *two* Denitrifying bacteria.
- (g) Name *two* secondary air pollutants.
- (h) Define ozone hole. 1×8=8

Unit I

2. Write short notes on the following : 4+4=8
 - (a) Levels of organization in ecology.
 - (b) Competition. <https://www.cdluonline.com>
3. Discuss morphological adaptations of Xerophytes. 8
4. Write short notes on the following : 4+4=8
 - (a) Ecophens/Ecads
 - (b) Survivorship Curve.
5. Write short notes on the following : 4+4=8
 - (a) Effect of light on plants
 - (b) Anatomical features of Halophytes.

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Unit II

6. Write short notes on the following : 4+4=8

- (a) Ecological Pyramids
- (b) Vitality and Vigour.

7. Write short notes on the following : 4+4=8

- (a) Life Forms
- (b) Functional aspects of succession.

8. Draw Nitrogen cycle and enumerate the role of nitrogen fixation in nitrogen cycle. 8

9. Write short notes on the following : 4+4=8

- (a) Impact of Global Warming on Earth.
- (b) Underground Pollution.