



B.Sc. IV Semester Degree Examination, Sept./Oct. - 2024

BOTANY

DSC-IV : Ecology and Conservation Biology

(NEP)

Time : 2 Hours

Maximum Marks : 60

- Note :** (i) Answer **all** the Sections.
(ii) Draw diagrams wherever necessary.

SECTION - A

Answer **all** the sub-questions.

10x1=10

1. (a) Define Ecology.
- (b) What is soil humus ?
- (c) What are Sunken Stomata ?
- (d) Give an example for artificial ecosystem.
- (e) Define Ecotone.
- (f) What is Natalivity ?
- (g) What are Shola forests ?
- (h) What is pollution ?
- (i) Expand ICUN.
- (j) Name India's largest Botanical garden.

SECTION - B

Answer **any four** of the following questions.

4x5=20

2. Write a note on Physio-Chemical properties of soil.
3. Describe the carbon cycle.
4. Write a note on vegetation of the Western Ghats.
5. Write a note on Inter-specific interactions with examples of plant communities.
6. Write a note on threats to biodiversity.
7. What are Ecological Pyramids ? Describe the number Pyramid.



SECTION - C

Answer **any three** of the following questions.

3x10=30

8. What are ecological factors ? Write the effect of temperature and humidity on plants growth.
9. Illustrate the structure of pond ecosystem with suitable diagram.
10. Describe the methods of plant community sampling.
11. Describe the causes, effects and control measures of water pollution.
12. What is In-Situ conservation ? Write a note on National Parks and Sanctuaries.

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