

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025  
(Sixth Semester)

Branch – BOTANY

PLANT ECOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. The various living organisms of the environment are called -----.  
(i) Biotic Factors (ii) Abiotic Factors  
(iii) Edaphic Factors (iv) Climatic Factors
2. The word Ecosystem was coined by ----- in 1935.  
(i) Mathavan (ii) Wilson and Bossert  
(iii) A. G. Tansley (iv) E.P. Odum
3. ----- means two or more coexisting populations benefit from the relationship but not suffers.  
(i) Exploitation (ii) Mutualism  
(iii) Competition (iv) Neutralism
4. ----- is a protected area to conserve plants and animals together in a natural habitat.  
(i) Sanctuaries (ii) Biosphere reserves  
(iii) National Parks (iv) Botanical Gardens
5. Minamata disease is caused by ----- poisoning.  
(i) Mercury (ii) Oxides  
(iii) Sulphur (iv) Magnesium

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. a. Explain the abiotic factors in Ecology.  
OR  
b. Mention the ecological adaptations in Hydrophytes.
7. a. Classify the types of food chain.  
OR  
b. Outline the phosphorus cycle.
8. a. Analyze the characteristics of community ecology.  
OR  
b. Categorize different kinds of Quadrat method.
9. a. Highlight the hot spots in Tamil Nadu.  
OR  
b. Survey about methods of soil conservation
10. a. Examine the causes and effects of soil pollution.  
OR  
b. Discuss about process of composting and recycling.

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. a. Explain in detail the biotic factors of Ecology.  
OR  
b. Mention the morphological adaptations of Xerophytes.
12. a. Describe the structure and functions of Ecosystem.  
OR  
b. Enumerate the flow of carbon into biotic and abiotic system.
13. a. Outline the tropical forests of India.  
OR  
b. Explain the principle procedure and observation of Line transect method.
14. a. Classify the types and concepts of Endemism.  
OR  
b. Highlight the nature of Red Data Book.
15. a. Elucidate the ecological effects of Air pollution.  
OR  
b. Summarize the methods of Solid waste management.

Z-Z-Z

END