

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2017
(Sixth Semester)

Branch- BOTANY

PLANT ECOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks!)

Answer ALL questions

ALL questions carry EQUAL marks

(10x2 = 20)

- 1 Define commensalism with a suitable example.
- 2 What is Ecological niche?
- 3 Define food web.
- 4 What are the components of a detritus food chain?
- 5 Mention any two methods to study plant communities.
- 6 Where in India will you find rain forests?
- 7 What are endangered species?
- 8 Give examples for an extinct plant and animal.
- 9 What is eutrophication?
- 10 What are the different methods employed for composting?

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5x5 = 25)

- 11 a Writes notes on mutualism.
OR
b Explain antibiosis with suitable examples.
- 12 a Give an illustrated account of the pond ecosystem.
OR
b Draw and describe the carbon cycle.
- 13 a What are the quantitative characteristics of plant communities. Give a brief description of each.
OR
b Enlist the qualitative characters of plant communities with a brief description of each.
- 14 a Give an account of soil conservation methods.
OR
b Write notes on Chipko movement.
- 15 a Enumerate the different causes for water pollution?
OR
b Highlight the effects of pesticides on human health.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Give an illustrated account of the ecological adaptations in hydrophytes and xerophytes.
- 17 Explain nutrient recycling with biogeochemical cycles.
- 18 Highlight the characteristic features of tropical and temperate forests.
- 19 Give an account of the biosphere reserves in South India.
- 20 Enumerate the sources and effects of air pollution.