

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2019
(Sixth Semester)

Branch - **BOTANY**

PLANT ECOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Define ecological niche.
- 2 What do you mean by commensalisms?
- 3 What is biogeochemical cycle?
- 4 Comment on energy flow.
- 5 Define phytogeography.
- 6 What are mangroves? Give any two examples.
- 7 What is Red data book?
- 8 Write any four methods of conservation of biodiversity.
- 9 What is photochemical smog?
- 10 What is eutrophication?

SECTION - B (25 Marks!)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Describe the morphological adaptations of hydrophytes.
OR
b Write a brief note on the climatic factors of environment.
- 12 a With suitable examples explain food chain and food web.
OR
b Explain the phosphorous cycle and its importance.
- 13 a Describe the transect method adopted to study vegetation.
OR
b Enumerate the characteristic features of a plant community.
- 14 a Write a short note on Chipko movement.
OR
b Define endemism and explain the formation of endemics.
- 15 a Explain the steps involved in solid waste management.
OR
b Briefly discuss about the causes and effects of soil pollution.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Write an elaborate note on the role of edaphic factors in the distribution of plants.
- 17 Illustrate the structure and components of a pond ecosystem.
- 18 Describe in detail about the vegetational types of India.
- 19 Give a detailed account on hot spot regions of biodiversity.
- 20 Write an essay on the role of edaphic factors in the distribution of plants.