

Exam Date & Time: 26-Sep-2020 (10:00 AM - 01:30 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins

BSc DEGREE EXAMINATION MAY 2020
(Sixth Semester)

Branch - BOTANY
PLANT ECOLOGY [14BOU21]

Marks: 75

Duration: 210 mins.

SECTION A

Answer all the questions.

- 1) What is microclimate? (2)
- 2) Define ecological niche. (2)
- 3) What is primary production? (2)
- 4) What is biogeochemical cycle? (2)
- 5) What is scrubjungle? (2)
- 6) Define phytogeography. (2)
- 7) What is Red data book? (2)
- 8) Define endemism. (2)
- 9) What is eutrophication? (2)
- 10) Define compositing. (2)

SECTION B

Answer all the questions.

- 11) Briefly discuss the specialized fields of ecology. (5)
 - a)
- [OR] Explain the following (i) Mutualism (ii) Commensalism (iii) Competition (5)
 - b)
- 12) Explain about the energy flow in an ecosystem. (5)

- a)
[OR] With suitable examples explain food chain and food web. (5)
b)
- 13) Inspect the characteristics of plant communities. (5)
- a)
[OR] Explain the quadrat method of studying plant community. (5)
b)
- 14) Critically comment on Chipko movement. (5)
- a)
[OR] Explain the methods of soil conservation. (5)
b)
- 15) Analyze the causes and consequences of acid rain. (5)
- a)
[OR] Discuss the sources, effects and control of water pollution. (5)
b)

SECTION C

Answer 3 out of 5 questions.

- 16) Illustrate the morphological and anatomical adaptations of xerophytes. (10)
- 17) Explain the nitrogen cycle in nature. (10)
- 18) Elucidate the vegetational types of India. (10)
- 19) Write an essay on Biodiversity at global, national and local levels. (10)
- 20) Evaluate the steps involved in solid waste management. (10)

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