

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)
Branch – BOTANY
PLANT ECOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 x 1 = 10)

1. Plants growing under shade are known as
a. Psamophytes
b. Sciophytes
c. Heliophytes
d. Monocots
2. An orchid living on a tree exhibit
a. Predation
b. Mutualism
c. Commensalism
d. Parasitism
3. The ratio between energy flow at different points in a food chain is known as
a. Ecological capacity
b. Ecological efficiency
c. Ecological assimilation
d. Ecological potential
4. Among the following select a non-denitrifying bacteria
a. *Pseudomonas aeruginosa*
b. *Thiobacillus*
c. *Thiobacillus denitrificans*
d. *Bacillus ramosus*
5. The number of individuals of species in an unit area is called:
a. Abundance
b. Density
c. Frequency
d. Cover
6. A long rectangular sample plot is:
a. Transect
b. Strip
c. Quadrat
d. Line
7. Where do the tropical rain forests occur?
a. Jammu and Kashmir
b. Himachal Pradesh
c. Bihar
d. Andamans
8. The term biosphere is used for the zone of earth where life exists
a. on the lithosphere surface
b. in the hydrosphere
c. in the lithosphere, hydrosphere and atmosphere
d. in the lithosphere and hydrosphere
9. Ozone layer occurs in
a. mesosphere
b. thermosphere
c. stratosphere
d. troposphere
10. Which of the following are the primary causes of water pollution?
a. Plants
b. Animals
c. Human activities
d. Birds

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

- 11 a Distinguish between mutualism and commensalism.
OR
b Describe the edaphic factors.
- 12 a With an illustration describe food chain.
OR
b Describe the structure of an ecosystem.
- 13 a Write the characteristics of plant communities.
OR
b Explain the quadrat method of studying plant community.
- 14 a Describe about Red Data Book.
OR
b Explain the biodiversity hotspots.
- 15 a Explain the greenhouse effect.
OR
b Write notes on eutrophication.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Discuss various abiotic factors.
- 17 Discuss nitrogen cycle.
- 18 Write an essay on major vegetation types of India with suitable examples.
- 19 Give an account on Chipko and Apico movements.
- 20 Discuss the water pollution and its control measures.

Z-Z-Z

END