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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023

(Sixth Semester)

Branch - BOTANY

		PLANT ECOLOGY	
Time:	Three Hours		Maximum: 75 Marks
	ALL qu	SECTION-A Answer ALL Questions uestions carry EQUAL marks	(10X1=10 Marks)
1.	When none of the participating (i) Intraspecific interaction (ii) Interspecific interaction (iii) Harmonious interaction (iv) Inharmonious interaction		n it is known as
2.	What is the feature of leaves (i) Thick cuticle (ii) Flat leaves (iii) Raised stomata (iv) Root hairs	of xerophytes?	
3.	The efficiency of energy translevel is roughly (i) 1% (ii) 10% (iii)100% (iv)1000%	sfer from a lower trophic leve	el to the next highest trophic
4.	How many molecules of ATI (i) 12 (ii) 20 (iii)6 (iv)16	P are required to fix one mole	cule of nitrogen?
5.	Which of the following defin (i) Ecotone (ii) Edge effect (iii)Ecade (iv)Resistance	nes the separation of two diffe	erent communities?
6.	Estuaries form where (i) A lake evaporates (ii) A river meets the sea (iii) A river becomes damme (iv) A wetland becomes filled		
7.	is defined as a geographic location (i) Exotic species (ii) Endemic species (iii)Ecosystem (iv)None of the above	in ecological state of a species	s being unique to a specific
8.	. ,	ly seen in biodiversity hotspo-	ts

(ii) Species richness (iii) Loss of diversity

(iv)Lesser interspecific competition

- 9. Which one of the substances mentioned is not responsible for the depletion of ozone layer?
 - (i) CFCs
 - (ii) Carbon tetrachloride
 - (iii)Aerosols
 - (iv)Ammonia
- 10. Which of the following promotes eutrophication?
 - (i) Mg
 - (ii) Na
 - (iii)Ca
 - (iv)P

SECTION-B Answer ALL Questions

ALL questions carry EQUAL marks

(5X7=35 Marks)

11.a. Write notes on (i) mutualism (ii) Commensalism.

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- b. Give an account on ecological adaptations of xerophytes.
- 12. a.Comment on food web with examples?

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- b. Explain the pond ecosystem with illustrations
- 13.a. Explain about mangrove forest?

Or

- b. Write about line transect?
- 14.a. Give an account on endemism.

Or

- b. Write briefly about chipko movement.
- 15.a. Give an account on causes of air pollution.

Or

b. Comment on eutrophication.

SECTION-C Answer ALL Questions

ALL questions carry EQUAL marks

(3X10=30 Marks)

- 16. Give an account on ecological adaptations of hydrophytes.
- 17. Explain in detail about Carbon cycle.
- 18. Discuss in detail about the vegetations of India.
- 19. Give an account on hotspots.
- 20. Explain in detail about soil pollution.

END