# PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

## **MSc DEGREE EXAMINATION DECEMBER 2023**

(Third Semester)

## Branch - BOTANY

### **ECOLOGY AND PHYTOGEOGRAPHY**

Time:	Three	Hours		Maximum: 50 Marks	
		SECTION-A Answer AL ALL questions carry	L questions	$(5 \times 1 = 5)$	
1.	and wi	sociation between two individual here neither can survive without ommensalism utualism		both are benefitted	
2.	Which statement is correct with respect to the food chain?  (i) Every component of the food chain forms a trophic level  (ii) Inter-relation between different food chains is known as a food web  (iii) All the chains formed by nutritional relations is used to understand energy flow  (iv) All of the above				
3.			(ii) species in a comr (iv) individuals in a fa		
4.	What is the correct order of the 3R principle?  (i) Recycle, Reuse, Reduce  (ii) Reuse, Reduce, Recycle  (iii) Reduce, Reuse, Recycle  (iv) None of the above				
5.	Remote sensing uses which of the follo (i) Electric field (iii) Gamma- rays		(ii) Sonar waves		
SECTION - B (15 Marks)  Answer ALL Questions  ALL Questions Carry EQUAL Marks (5 x 3 = 15)					
6.	a. b.	State the basic concepts of ecolor Determine the Classification of	OR		
7.	a. b.	Explain the structure of ecosyst Evaluate food chain.	oR OR		
8.	a.	State the concept of habitat.	OR		
9.	b. a.	Justify the features of population Discuss about the principles of	environmental education	on.	
10.	b. a.	Determine the natural resources What are the vegetation types in			
	b.	Explain area hypothesis.			

#### SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11. a. Discuss on divisions of ecology.

OR

- b. Write an essay on physical environment in ecology.
- 12. a. Discuss about ecological pyramids.

OR

- b. Explain energy flow in ecosystem.
- 13. a. What are adaptations of hydrophytes?

OR

- b. Discuss about ecological succession.
- 14. a. Recommend the management of natural resources.

OR

- b. Justify human health in present environment.
- 15. a. Give an account on theories of discontinuous distribution.

OR

b. State the applications of remote sensing.

Z-Z-Z

END