PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025

(Sixth Semester)

Branch - MICROBIOLOGY

MICROBIAL ECOLOGY

	MICRO	SIAL ECOLOGI		
Time: Three Hours			Maximum: 50 Marks	
	Answe	ON-A (5 Marks) r ALL questions ons carry EQUAL marks	$(5 \times 1 = 5)$	
1	What are the two basic categora) Aquatic and terrestrial c) Ponds and lakes	b) Aquatic and forest d) Rivers and forests		
2	Which of the following is the treatment? a) Treatment c) Supply to receiving body	b) Supply to consumers d) Combine with stormy	vater	
3	Which of the following is the a) Plant extracts c) Coal tar	primary source for syntheti b) Animal products d) Mineral ores	ic dyes?"	
4	What is the full form of VAM? a) Vesicular-arbuscular mycorrhiza b) Venom Azolla mycorrhiza c) Venom-arbuscular mycorrhiza d) Vesicular-azollae mycorrhiza			
5	is the amount of oxygen sewage. a) Turbidity b) BOD	required to oxidize only o	rganic matter in	
	Answe	ON - B (15 Marks) er ALL Questions ons Carry EQUAL Marks	$(5 \times 3 = 15)$	
6	• •	OR OR OR		
7	(a) How can we reduce, reuse	How can we reduce, reuse and recycle water? OR		
8	(a) Write source and origin of	Write source and origin of dyes OR		
9	(a) What is Rhizosphere?	OR		
10	(b) Explain Sugarcane smut di(a) How is biogas produced?	or or		
	(b) How is COD measured?			

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

What is an Ecological Pyramid? write its types. 11 (a) OR

- Describe Marine Ecosystems. (b)
- Discuss the differences between the primary, secondary and tertiary loader 12 (a) treatment.

- What is sludge? Explain Methods of sludge disposal. (b)
- Explain sources of heavy metal and its impacts on human health. (a) 13

OR

- Describes detoxification strategies. (b)
- Give detail notes on Bacterial blight disease of paddy. 14 (a)

- Differentiate Ectomycorrhizae and Endomycorrhizae. (b)
- Briefly explain water-borne diseases and their impact. 15 (a)

What is bioleaching? Explain its types. (b)

Z-Z-Z

END