

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2026
(Sixth Semester)

Branch - ZOOLOGY

ENVIRONMENTAL BIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Synecology deals with (i)Single organism (ii)Community of organisms (iii)Cells (iv)Genetics	K1	CO1
	2	When one organism kills and eats another, it is called (i)Competition (ii) Predation (iii)Mutualism (iv)Antibiosis	K2	CO1
2	3	Green plants in an ecosystem are (i)Primary consumers (ii)Secondary consumers (iii)Producers (iv)Decomposers	K1	CO2
	4	A simple linear pathway of energy transfer is called (i)Food web (ii)Food chain (iii)Ecological pyramid (iv)Biome	K2	CO2
3	5	The upper open water zone of a pond is called (i)Littoral zone (ii)Profundal zone (iii) Limnetic zone (iv) Benthic zone	K1	CO3
	6	Deep sea organisms generally show (i)Bioluminescence (ii)Bright coloration (iii)Thin body wall (iv)Large eyes	K2	CO3
4	7	Natality refers to (i)Death rate (ii)Migration (iii)Population density (iv)Birth rate	K1	CO4
	8	Logistic growth curve is (i)J-shaped (ii)Linear (iii)Circular (iv)S-shaped	K2	CO4
5	9	Zoogeography deals with the study of (i) Plant distribution (ii)Animal distribution (iii)Soil formation (iv)Climate change	K1	CO5
	10	The Indian rhinoceros is mainly found in (i)Desert (ii)Western Ghats (iii)Assam region (iv)Himalayas only	K2	CO5

Cont...

SECTION - B (35 Marks)Answer **ALL** questions**ALL** questions carry **EQUAL** Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Write short notes on commensalism and mutualism.	K3	CO1
		(OR)		
	11.b.	Interview the role of light as a limiting factor.		
2	12.a.	Differentiate between food chain and food web.	K4	CO2
		(OR)		
	12.b.	Examine the energy flow.		
3	13.a.	Depict the zonation of a pond ecosystem.	K4	CO3
		(OR)		
	13.b.	List out the characteristics of forest biome.		
4	14.a.	Describe population density and methods of measurement.	K5	CO4
		(OR)		
	14.b.	Explain the altruism and imprinting.		
5	15.a.	Organize causes of wildlife depletion in India.	K3	CO5
		(OR)		
	15.b.	Differentiate between in-situ and ex-situ conservation.		

SECTION -C (30 Marks)Answer **ANY THREE** questions**ALL** questions carry **EQUAL** Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	What are limiting factors? Discuss the role of light and temperature as limiting factors in ecosystems.	K3	CO1
2	17	Describe ecological pyramids (number, biomass and energy) and discuss their characteristics with examples.	K4	CO2
3	18	Describe marine habitat in detail with special reference to pelagic zone, intertidal zone and deep sea.	K3	CO3
4	19	Define pollution. Explain in detail sources, effects and control measures of water pollution.	K5	CO4
5	20	Write an essay on endangered flora and fauna of India and discuss the major threats to biodiversity.	K3	CO5

Z-Z-Z

END