

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2023
(First Semester)

Branch – ZOOLOGY

ECOLOGY

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	Trophic levels are formed by -----. a) plants only b) Animals only c) carnivores only d) Organism linked as food chain	K1	CO1
	2	The pyramids which are always upright? a) Pyramids of energy b) Pyramids of number c) Both d) None	K2	CO1
2	3	Succession showing changes in communities at a place is called a) Biotic succession b) Geographical succession c) Climatic succession d) Physiographic succession	K1	CO1
	4	Symbiosis is expressed by -----. a) Soil b) Fungi c) Lichen d) Virus	K2	CO1
3	5	The population of an area tends to increase by a) Mortality b) Natality c) Emigration d) All the above	K1	CO1
	6	The population growth curve of a living being in a new habitat has -----. a) Sigmoid shaped form b) S-shaped form c) U-shaped form d) Bell shaped form	K2	CO1
4	7	The marshes are wetland characterized by a) Grass like vegetation b) Shrubs c) Trees d) Particularly decomposed organic matter	K1	CO1
	8	The circulation of elements in an ecosystem is called a) Chemical cycling b) Geological cycling c) Geochemical cycling d) Bio-geochemical cycling	K2	CO1
5	9	The species loses in tropical countries is mainly due to a) Pollution b) Deforestation c) Soil erosion d) Urbanization	K1	CO1
	10	----- is one of the most prevalent hotspots of biodiversity in India. a) Western Ghats b) Eastern Ghats c) Sirumalai Hills d) Karanthamalai Hills	K2	CO1

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.	Summarize the trophic structure in aquatic ecosystem.	K2	CO1
	(OR)			
	11.b.	Explain about the ecological pyramids.		
2	12.a.	Analyze the relationship in predation.	K4	CO3
	(OR)			
	12.b.	Categorize the ecological disturbances in an ecosystem community.		
3	13.a.	Evaluate the human population control.	K5	CO4
	(OR)			
	13.b.	Discuss the impact of natality and mortality in an ecosystem .		
4	14.a.	Classify the wetlands in India.	K4	CO3
	(OR)			
	14.b.	Inspect the application of GIS in oceanography.		
5	15.a.	Discuss about rainwater harvesting system.	K6	CO5
	(OR)			
	15.b.	Evaluate the policies in wild life 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	Distinguish between the hydrosphere and lithosphere.	K4	CO3
2	17	Evaluate the species richness and keystone species in an ecosystem community.	K5	CO4
3	18	Elaborate the population regulation.	K6	CO5
4	19	Assess the renewable and non-renewable resources in India.	K5	CO4
5	20	Organize the principles and methods of biodiversity conservation.	K3	CO2

Z-Z-Z

END