

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION DECEMBER 2024
(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.	Ques No.	Question	K Level	CO
1	1	Choose the name given to the soil components of earth. a.atmosphere b.lithosphere c.hydrosphere d. biosphere	K1	CO1
	2	Transfer of energy from one tropic level to another tropic level is _____. a.tropic level b.food chain c.energy flow d.food web	K2	CO1
2	3	A sum total of plants, animals and microbes living in a particular area. a.population b.community c.species d.genus	K1	CO2
	4	What is Natality? a. Death rate b. Birth rate c. mortality d. density	K2	CO2
3	5	When the total number of individuals that can be supported in an area at a particular time is ----. a.density b. carrying capacity c.mortality d.dispersal	K1	CO3
	6	Which one of the following helps to understand the spatial distribution patterns and resource allocation? a.Natality b. death rate c.Density indices d.none	K2	CO3
4	7	Name of the branch that deals with the study of rocks, their origin, composition and structure. a.limnology b.petrology c.virology d.all the above	K1	CO4
	8	What is the name given to the cycling of carbon between biotic and abiotic factors? a.nitrogen cycle b.carbon cycle c.sulphur cycle d.oxygen cycle	K2	CO4
5	9	When will be the wild life week celebrated? a. January b.october c.december d.may	K1	CO5
	10	Relate red data book with the following. a.wild life b.domestic animal c.endangered animals d.all the above	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.	Discuss the layers of atmosphere.	K3	CO1
		(OR)		
	11.b.	Highlight the ecological pyramids.		
2	12.a.	Explain the types of ecological succession.	K3	CO2
		(OR)		
	12.b.	Identify the Keystone species in ecosystem.		
3	13.a.	Explain the types of Growth curve.	K4	CO3
		(OR)		
	13.b.	Distinguish Mortality and Natality.		
4	14.a.	Enumerate the applications of GIS in oceanography.	K4	CO4
		(OR)		
	14.b.	Examine the mining and its applications.		
5	15.a.	Explain the importance of Social forestry.	K5	CO5
		(OR)		
	15.b.	Evaluate the methods of biodiversity 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	Analyze the Primary productivity and its measurement.	K4	CO1
2	17	Examine the competition and its type.	K4	CO1
3	18	Narrate the factors affecting population growth.	K4	CO1
4	19	Explain the Nitrogen cycle.	K5	CO5
5	20	Interpret advantages of rain water harvesting.	K5	CO5

Z-Z-Z

END