Enrollment No.	
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School: School of Science
Program/s: MSc. Life Sciences
Year: 1st Semester: 1st

Examination: End Semester Examination

Examination year: December 2022

Course Code: ECO101, Course Name: Ecology and Environmental Biology

 Date:
 7/12/2022
 Total Marks:
 40

 Time:
 8.30am to 10.30 am
 Total Pages:
 03

→ Write each answer on a new page.

→ \*COs=Course Outcome mapping. # BTL=Bloom's Taxonomy Level mapping

Q. No.	Details	Marks	CO	BTL
Q.1	Do as directed  1. A population is a group of	1x12=12	CO1 CO2 CO3 CO4 CO5	BTL1,2,3

	<ul> <li>9. What is the main aim of Montreal Protocol? <ul> <li>a) Protection of Ozone Layer</li> <li>b) Extinct species</li> <li>c) Endangered Birds</li> <li>d) Biodiversity conservation</li> </ul> </li> <li>10. Name the term which defines the study of the characteristics and parameters of the population. <ul> <li>a) Demography</li> <li>b) Population ecology</li> <li>c) Population density</li> <li>d) Mortality</li> </ul> </li> <li>11. Biologically speaking are humans "R" species or "K" species?</li> <li>12. Which of the following is not a feature of 'r' selected species? <ul> <li>a) Reproduce quickly</li> <li>b) The low survival rate of progenies</li> <li>c) Parental care</li> <li>d) Reproduce a large number of progenies</li> </ul> </li> </ul>			
Q.2	Answer in brief (Any 7)			
	<ol> <li>How would population decline affect the environment?</li> <li>How might the removal of a predator from a system result in a diverse prey community?</li> <li>How does the mark-recapture method to estimate population size work?</li> <li>What are the different patterns of dispersion found in a population?</li> <li>What are the main features found in population with respect to population dynamics?</li> <li>What are the main factors that affect the growth of a population?</li> <li>In December 2004, a tsunami (giant wave) destroyed many of the organisms along the coast of the Indian Ocean. What can be expehappen to the ecosystem that was most severely hit by the tsunam</li> <li>What is the main reason for the decline in vulture population?</li> <li>How different are the concepts of migration, emigration and immigration?</li> </ol>		CO1 CO2 CO3 CO4 CO5	BTL1,2,
Q.3	Write short notes on (Any 2):	2x2.5=5	CO1	BTL1,2,3
	Any one movement for conservation of tree     Any two types of Mimicry		CO <sub>2</sub>	D111,2,3
	3. Human impact on the ecosystem		CO3	
	· ··· ··· coosystem		CO5	

Q.4	Answer in detail (any 3)	3x3=9	CO1	BTL1,2,3
	Describe the impact of at least three natural calamities on the environment.		CO2	
			CO3	
	2. What are the causes for ozone layer depletion? Give the harmful			
	effects of the mentioned problem. Are the anthropogenic			
	activities responsible for this environmental issue?			
	3. According to you, who do you think is responsible for the			
	increase in natural calamities globally. Cite suitable examples to			
	justify your answer.			
	4. What are the different International Legislations developed for			
	environment concerns?			
	environment concerns?			