C.U.SHAH UNIVERSITY **Summer Examination-2019**

Subject Name: Ecology & Evolutionary Biology

	Subject	Code: 4SC06EEB1	Branch: B.Sc. (Microbiology)	
	Semester	r: 6 Date: 16/04/2019	D Time: 10:30 To 01:30 Marks: 70	
	(2) I (3) I	Use of Programmable calculato		
Q-1		Attempt the following quest	tions:	(14)
Atte	n)	Life originated from non livin Humboldt is considered as fat Name the different layers of a Name any two causative agen The term ecology was given b	ther of ecology. True/ False atmosphere ats responsible for soil erosion by ted negatively the nature of interaction is	
Q-2	a)	Attempt all questions Discuss the theory proposed validity.	by Darwin. Give two examples in support of its	(14) (7)
	b)	Discuss different methods of	soil conservation.	(7)
Q-3	a) b)	-	What conclusions can be drawn from it? oryological and paleontological evidences in support	(14) (7) (7)
Q-4	a)	Attempt all questions Explain Hardy-Weinberg pri evolution.	inciple and discuss any two applications of it in	(14) (7)
	b)		nd explain different type of pyramid with the help of Page 1	(7) of 2



diagram and give example of each.

Q-5	a) b)	Attempt all questions Discuss the salient features of mutation theory. Write a short note on energy of pyramids.	(14) (7) (7)
Q-6	-)	Attempt all questions	(14)
	a) b)	 Discuss the biological concept of species. Explain the theory in support of it. Discuss the role of following agents in the process of evolution: i) Gene flow ii) Non-random mating iii) Genetic drift 	(7) (4)
Q-7		Attempt all questions	(14)
	a)	Discuss the formation of soil.	(7)
	b)	Graphically represent population growth and compare r and k species.	(7)
Q-8		Attempt all questions	(14)
-	a)	What do you understand by genecology? Discuss its characteristic features.	(7)
	b)	Discuss grassland food chain giving an example.	(7)

