

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Ecology & Evolutionary Biology

Subject Code : 4SC06EEB1

Branch : B.Sc(Microbiology,Biotechnology)

Semester : 6

Date : 11/04/2017

Time : 02:30 To 05:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1	Attempt the following questions:	(14)
	a) Define ecology.	1
	b) Define ecosystem.	1
	c) Define population characteristics.	1
	d) Give example of various ecosystems.	1
	e) Enlist the method of analysis for community ecology.	1
	f) Define function of ecosystems.	1
	g) Enlist the biotic factor which affecting ecosystem.	1
	h) Define soil erosion	1
	i) Define mutation.	1
	j) Enlist the agent responsible for evolutionary changes.	1
	k) Define macroevolution	1
	l) Explain meaning of organic evolution	1
	m) Define enzyme polymorphism	1
	n) Explain coevolution	1

Attempt any four questions from Q-2 to Q-8

Q-2	Attempt all questions	(14)
A	Write a note on Hardy-Weinberg principle and its applications.	7
B	Write a note on population characteristics.	7
Q-3	Attempt all questions	(14)
A	Write a note on method used for analysis of community ecology.	7
B	Write a note on modern interpretation of Darwinism.	7



Q-4	Attempt all questions	(14)
A	Explain the theory of origin of life.	7
B	Write a note on Darwin's theory of natural selection.	7
Q-5	Attempt all questions	(14)
A	Write a short note on molecular clocks.	7
B	Explain scope and importance of ecology.	7
Q-6	Attempt all questions	(14)
A	Explain the flow of energy in ecological pyramid.	7
B	Explain Miller's experiment.	7
Q-7	Explain structure and function of ecosystem.	(14)
Q-8	Attempt all questions	(14)
A	Explain Topological factor of environment.	(7)
B	Describe process of genetic drift, gene flow by appropriate examples.	(7)

