

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Microbial Diversity & Taxonomy

Subject Code: 4LS01MBO2/4LS01MBO3/4SC01MDT1 Branch: B.Sc.(Microbiology)

Semester: 1 Date: 05/04/2017 Time: 10:30 To 01:30 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.

Q-1	Attempt the following questions:	(14)
	a) What is Microbial diversity?	1
	b) What is taxonomy?	1
	c) What is EPS in bacteria?	1
	d) What is connecting link between living and nonliving things?	1
	e) Write full form of DNA?	1
	f) <i>E. coli</i> is Gram negative bacteria. True/False	1
	g) Give examples of curved bacteria.	1
	h) What is Mycology?	1
	i) Write full form of TMV.	1
	j) Write full form of HIV.	1
	k) What is Archaea?	1
	l) What is gene sequencing?	1
	m) Write full form of RNA.	1
	n) Define phylogenetic analysis	1

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

Q-2	Attempt all questions	(14)
	a) What is DNA hybridization? Explain it with suitable diagram.	7
	b) Write a short note on phylogenetic analysis	7
Q-3	Attempt all questions	(14)
	a) Explain five Kingdom classification system	7
	b) Explain how bacteria survive in adverse conditions.	7
Q-4	Write short notes on-	(14)
	a) Bergy's manual	7



	b	Tobacco mosaic virus	7
Q-5		Attempt all questions	(14)
	a	Explain characteristics of fungi with suitable diagram.	7
	b	Explain importance of protozoa	7
Q-6		Attempt all questions	(14)
	a	Explain importance of fungi.	7
	b	Explain characteristics of algae with suitable diagram	7
Q-7		Attempt all questions	(14)
	a	What is methanogen? Explain their role and importance.	7
	b	Explain endocytosis with suitable diagram.	7
Q-8		Explain the lytic and lysogenic cycle of Bacteriophage with suitable diagram.	(14)

