

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name : Microbial Diversity & Taxonomy

Subject Code :4LS01MB02 /4LS01MBO3/4SC01MDT1 Branch: B.Sc(Microbiology)

Semester :1 Date :11/12/2015 Time :10:30 To 1:30 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 Microbial diversity	1
	b) Define taxonomy	1
	c) Define phylogenetic analysis	1
	d) Write formula of SSM	1
	e) What is T _m value?	1
	f) Give examples of Gram negative anaerobic microorganisms	1
	g) Give examples of gram positive sporulating bacteria	1
	h) Define sexual reproduction	1
	i) What is aplanospore?	1
	j) What is zoospores?	1
	k) What is algae?	1
	l) Give examples of helical shaped bacteria	1
	m) What is polar flagella?	1
	n) What is taxonomic rank?	1

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

Q-2	Attempt all questions	(14)
	a Explain DNA hybridization & T _m value	7
	b Write a short note on phylogenetic analysis	7
Q-3	Attempt all questions	(14)
	a Explain five & three Kingdom classification systems	7
	b Explain Bergy's manual of bacteriology	7
Q-4	Attempt all questions	(14)
	a Explain eight kindom classification & phototrophic bacteria	7
	b Explain the classification of algae.	7



Q-5	Attempt all questions	(14)
a	Explain sexual reproduction in fungi	7
b	Write general features of fungi & Algae	7
Q-6	Attempt all questions	(14)
a	Explain asexual reproduction of fungi	7
b	Write a short note on protozoa	7
Q-7	Attempt all questions	(14)
a	Write General features of aerobic, microaerophilic bacteria	7
b	Explain genus psuedomonas	7
Q-8	Attempt all questions	(14)
a	Explain family enterobacteriaceae	7
b	Explain gram positive sporulating bacteria	7

