Exam Seat No:	Enrollment No:

C.U.SHAH UNIVERSITY

WADHWAN CITY

University (Winter) Examination -2013

Subject Name: - Microbial Diversity & taxonomy Course Name : B.Sc(Microbiology) Sem-I **Duration :- 3:00 Hours** Date: 16/12/2013

Instructions:-

- (1) Attempt all Questions of both sections in same answer book / Supplementary.
- (2) Use of Programmable calculator & any other electronic instrument is prohibited.
- (3) Instructions written on main answer Book are strictly to be obeyed.
- (4) Draw neat diagrams & figures (If necessary) at right places.
- (5) Assume suitable & Perfect data if needed.

SECTION-I	
Q-1 Define the following	
(a) Taxonomy (b) Classification (c) Nomenclature (d) Identification (e) Str	omatolites (f)
Genus (g) Systematics	(7)
Q-2(a) Write a note on Carl Woese classification.	
Q-2(b) Describe Jaccard coefficient.	
Q-2(c) Give the importance of microbial taxonomy.	
OR	
Q-2(a) Which genera of Gram negative bacteria are associated with plants as nitro	gen fixers and
plant pathogens?	(5)
Q-2(b) Describe general features of Facultative anaerobic gram positive cocci with	_
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Q-2(c) Describe phototrophic bacteria with examples.	
Q-3(a) Explain the various classification systems in taxonomy.	(7)
Q-3(b) Give the general characters of family: Pseudomonadaceae with examples.	(7)
Q-3(a) Describe molecular characteristics used in assessing microbial taxonomy.	(7)
Q-3 (b) Give a brief account of Bergey's manual of bacteriology.	(7)
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SECTION-II	
Q-4 Define the following:	
(a) Virus (b) Bacteriophage (c) Prophage (d) Capsid (e) Pseudopods (f) Phycolo	gy
(g) Mycology	(7)
Q-5(a) Write a note on algal pigments.	(5)
Q-5(b) Explain the structure of retrovirus.	(5)
Q-5(c) Define (a) Symbio is is (b) Parasitism (c) Commensalism (d) Mutualism	(4)
OR	
Q-5(a) Describe sexual reproduction in Fungi.	(5)
Q-5(b) Describe life cycle of paramecium.	(5)
Q-5 (c) Give the structure of amoeba.	(4)
Q-6 (a) Explain Lytic cycle in detail.	(7)
Q-6 (b) Write a note on Tobacco mosaic virus & its life cycle.	
OR	
Q-6(a) Classify algae with examples.	(7)



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Q-6 (b) Describe the methods of cultivation of viruses and explain any one method.