Exam Seat No:	Enrollment No:

C.U.SHAH UNIVERSITY

WADHWAN CITY

University (Winter) Examination -2013

Course Name: B.Sc(Micro) Sem-I Subject Name: -World of Microbes

Duration :- 2:30 Hours Date : 12/12/2013

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

SECTION-1	
Q-1 Define the following	
(a)Microbiology (b) Animalcules (c) Antibody (d) Immunology (e) Media (f) (CFU
(g)Pure culture	(7)
Q-2(a) Write a note on Theory of spontaneous generation.	
Q-2(b) What is germ theory of disease? Who proposed the germ theory?	
Q-2(c) Explain the contributions of Anton Von Leeuwenhoek.	(5) (4)
OR	` '
Q-2(a) Explain the contributions of Louis Pasteur in the field of Microbiology.	(5)
Q-2(b) Explain the contributions of Ignaz Semmelweiss in the field of Microbiology.	
Q-2 (c) Briefly discuss scope of microbiology.	
	(4)
Q-3(a) Write a note on history of microbiology.	(7)
Q-3(b) Describe the process of active & passive transport.	
OR 5	
Q-3(a) Describe Replica plating technique.	(7)
Q-3 (b) Give the composition of Mac Conkey agar & enlist its functions.	(7)
**CWERING YOUR DESCRIPTION	
SECTION-II	
Q-4 Define the following:	
(a) Resolving power (b) Magnification (c) Dye (d) Chromophore (e) Sterilization	
(f) Antiseptic (g) Disinfectant	(7)
Q-5(a) Briefly describe about Scanning electron microscopy.	
Q-5(b) Explain the principle & procedure of Gram staining.	(5)(5)
Q-5(c) Classify bacteria based upon their shapes.	(4)
OR	
Q-5(a) Classify Dyes with examples.	(5)
Q-5(b) Describe the gram negative cell wall.	
Q-5 (c) Classify microscopic techniques with examples .	(4)
Q-6 (a) Classify methods of sterilization and explain about dry heat method.	(7)
Q-6 (b) Describe the detailed structure of bacterial cell.	(7)
OR	
Q-6(a) Discuss the mechanism of action of antibacterial drugs with suitable examples.	(7)
Q-6 (b) Give the principle & working of Autoclave	(7)

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