Enrollment No:-____

Exam Seat No:-

C.U.SHAH UNIVERSITY

Summer-2015

Subject Name: World Of Microbes

Subject Code: 4LS01MB01 Course Name:B.Sc. (Micro) Semester:I

Date: 8/5/2015 Marks: 70 Time:10:30 TO 01:30

Instructions:

- 1) Attempt all Questions of both sections in same answer book/Supplementary.
- 2) Use of Programmable calculator & any other electronic instrument 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)Microbiology (b) Animalcules (c) Antigen (d) Serology (e) Media (f) PFU	
(g)Pure culture	(7)
O-2(a) Write a note on Theory of spontaneous generation	(5)

- Q-2(a) Q-2(a) write a note on Theory of spontaneous generatio Q-2(b) Describe germ theory of disease
- (5)Q-2(c) Explain the contributions of Louis Pasteur (4)

OR

5)
5)
4)
5)
5)
4)
5 4 5 5

OR

Q-3(a) Differentiate between acid fast staining & gram staining.	(5)
Q-3(b) Classify various microscopic techniques.	(5)
Q-3(c) Differentiate between electron transmission & scanning microscopy.	(4)



SECTION-II

Q-4 Define the following: (a) Leucostain (b) Magnification (c) Dye (d) Chromophore (e) Sterilization	
(f) D value (g) Antibacterial	(7)
Q-5(a) Briefly describe the sbright field microscopy.	(5)
Q-5(b) Explain the principle & procedure of flagella & capsule staining.	(5)
Q-5(c) Explain physical theory of staining.	(4)

OR

Q-5(a) Classify Dyes with examples.	(5)
Q-5(b) Describe the bacterial cell structures external to the cell wall.	(5)
Q-5 (c) Classify sterilization techniques.	(4)
Q-6(a) Write short note on physical agents of microbial control.	(5)
Q-6(b) Describe characteristics of ideal antimicrobial agent.	(5)
Q-6(c) Differentiate between gram positive & gram negative bacteria.	(4)

OR

Q-6(a) Describe structure of gram negative cell wall.	(5)
Q-6(b) Classify antimicrobial agents.	(5)
Q-6 (c) Describe the structure of horizontal autoclave with neat labeled diagram.	(4)

