

C.U.SHAH UNIVERSITY

Wadhwan City

Subject Code : 4LS01MBO1

Summer Examination-2014

Date: 05/06/2014

Subject Name World of Microbes

Branch/Semester:- B.Sc(Micro)/I

Time:10:30 To 1:30

Examination : Remedial

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) Microbiology (b) Antigen (c) Immunization (d) Enriched media (e) Resolving power (f) PFU (g) Pure culture (7)

Q-2(a) Write a note on contributions of Louis Pasteur. (5)

Q-2(b) Explain germ theory of disease. Who proposed the germ theory? (5)

Q-2(c) Explain the contributions of Ignaz Semmelweiss. (4)

OR

Q-2(a) Describe history of microbiology. (5)

Q-2(b) Explain active transport process. (5)

Q-2 (c) Give the composition of Nutrient Agar. (4)

Q-3(a) Classify microbes on basis of nutrition. (7)

Q-3(b) Describe Replica plating technique. (7)

OR

Q-3(a) Describe the components of media along with their significance. (7)

Q-3 (b) Explain Passive transport process. (7)

SECTION-II**Q-4 Define the following:**

- (a) Numerical Aperture (b) Resolving power (c) Chromogen (d) Auxochrome (e) Bacteriostatic (f) Antiseptic (g) Fungicide (7)

Q-5(a) Describe about Transmission electron microscopy. (5)

Q-5(b) Explain the principle & procedure of Acid fast staining. (5)

Q-5(c) Classify bacteria based upon their shapes. (4)

OR

Q-5(a) Describe spore staining process. (5)

Q-5(b) Describe the gram positive cell wall. (5)

Q-5 (c) Classify microscopic techniques with examples . (4)

Q-6 (a) Classify Dyes with examples. (7)

Q-6 (b) Explain about Hot air oven. (7)

OR

Q-6(a) Describe principle and working of Compound microscope. (7)

Q-6 (b) Explain antibiotic sensitivity testing. (7)

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