

SEMESTER IV

B.Tech. Biotechnology

Mid semester examination

MAR 2019

BT-206: Microbiology

Time: 1.5 Hours

Max. Marks :20

Note :Answer all questions. All questions carry equal marks.

Q.1 Discuss the important contributions of the following scientists in microbiology

- a. Robert Koch
- b. Louis Pasteur

Q.2 [a.] Describe the structure & chemical composition of gram +ve bacterial cell wall.

[b] What is the significance of pili and capsule for the bacterial cell

Q.3[a] Explain concept of bacterial growth curve & explain how lag phase is affected when a bacterial culture is shifted from LB medium to minimal medium.

[b] Define continuous culture and enumerate 2 ways of achieving continuous culture.

Q.4 What is the importance of Bergey's manual in bacterial taxonomy. What are archaebacteria?