

Code 9A23304

2

II B.Tech I semester (R09) Regular Examinations, November 2010
MICROBIOLOGY
(Biotechnology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

1. (a) Explain the theory of spontaneous generation.
(b) Write an account of microbial diversity.
2. (a) Write two scientists name and their contribution in the field of microorganisms.
(b) Write about major characteristics used in taxonomy of microorganisms.
3. (a) Write about microorganisms classification based on nutrition.
(b) What are the special techniques used for cultivation of anaerobes.
4. (a) Write about working and primary stock cultures-Lyophilisation.
(b) Write about influence of environmental factors on the growth microorganisms.
5. (a) Write about definition of infection diseases and pathogens with examples.
(b) Write about virulence and virulence factors of influenza and tuberculosis.
6. (a) Write about the properties of viruses and illustrate the virus structure.
(b) Write about the application of viruses in biotechnology industry.
7. (a) Describe the bacterial virus replication and also mechanism of lysogeny.
(b) Write about DNA viruses and RNA viruses
8. (a) Write a detailed account on different methods of identification and invitro cultivation of viruses.
(b) Write about assay of animal viruses.
