

Code 9A23304

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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) Write a detailed account of major events in the field of microbiology.
(b) Write a typical characteristics features of bacteria and algae.
2. (a) Write characteristics of bacteria with special reference to Archaea and Eubacteria.
(b) Describe briefly about different classification systems in microbiology.
3. (a) Describe macro and micronutrients required by microorganisms for their growth.
(b) Describe different pure culture methods spread plate , pour plate and streak plate methods.
4. (a) Write about different methods for preservation of microorganisms.
(b) Write about bacterial staining techniques.
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 3 examples of animal viruses and plant viruses.
(b) Describe the classification of viruses. *Every student's vision*
7. (a) Describe the bacterial replication and also mechanism of lysogeny.
(b) Write about DNA viruses and RNA viruses.
8. (a) Write a detailed account on different method of identification and invitro cultivation of viruses.
(b) Write about assay of animal viruses.
