

R9

Code: 9A23304

B.Tech II Year I Semester (R09) Supplementary Examinations, May 2013

MICROBIOLOGY
(Biotechnology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Explain Carl Woese classification of microorganisms.
(b) Write briefly on general account of protozoa.
- 2 (a) Describe different types of culture media.
(b) Write briefly on late blight disease of potato.
(c) Explain spore staining technique to study colony characteristics.
- 3 Explain in detail the process of replication of animal viruses with a suitable example.
- 4 (a) Describe lyophilisation briefly.
(b) Write briefly about properties of viruses.
(c) Explain briefly assay of bacterial viruses.
- 5 (a) Explain briefly Germ theory of diseases.
(b) Describe effect of temperature on growth of microbes.
(c) Write about the applications of virology in biotech industry.
- 6 (a) Explain briefly special techniques for cultivation of microbes.
(b) Describe briefly major characteristics used in classification of microorganisms.
- 7 Describe various growth factors and their functions in metabolism.
- 8 (a) Describe viruses of arthropods.
(b) Give account of contribution of Edward Jenner to the field of microbiology
(c) Describe briefly IMVIC test.
