

Code: 9A23304

R9

B.Tech II Year I Semester (R09) Supplementary Examinations, May 2012

MICROBIOLOGY

(Biotechnology)

Time: 4 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 (a) Explain about theory of spontaneous generation and germ theory of diseases.
(b) Explain a general account of microbial diversity.
- 2 (a) Explain about five-kingdom classification system of Whittaker.
(b) Explain about major characteristics used in taxonomy.
- 3 (a) Explain the role of nutritional growth factors and their functions in metabolism.
(b) Explain about the cultivation of microorganisms referring to enriched media.
- 4 (a) Explain about the preservation of microorganisms – referring to lyophilisation.
(b) Explain about the influence of environmental factors on growth-referring to temperature.
- 5 (a) Explain about the pathogenesis of tuberculosis.
(b) Explain about the virulence factors of late blight of potato.
- 6 (a) Explain about virus properties.
(b) Explain about the application of virology in biotech industry.
- 7 (a) Explain about viral replication.
(b) What are the major difference between bacterial replication and viral replication?
- 8 (a) Explain about identification of viruses.
(b) Explain about cultivation of viruses.
