

Code: 9A23304

B.Tech II Year I Semester (R09) Supplementary Examinations June 2017

MICROBIOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions
All questions carry equal marks

- 1 (a) Give an account of major contributions in the field of microbiology.
(b) Give a brief account of medically important protozoa.
- 2 (a) Explain the five-kingdom classification of Whittaker.
(b) Write about the general characteristics of bacteria.
- 3 (a) Discuss about the culture media used for cultivation of microorganisms.
(b) Enumerate the physiological functions of macronutrients.
- 4 (a) Discuss the influence of various environmental factors on growth of microbes.
(b) Enumerate the methods employed to preserve cultures.
- 5 Give a detailed account on infection and pathogenicity of influenza viruses. Add a note on antigenic shift and antigenic drift.
- 6 Explain general properties of viruses with suitable diagrammatic representation,.
- 7 Give a detailed account on replication of RNA animal virus.
- 8 Discuss the methods of cultivation of viruses. Define the terms plaque and necrotic lesions.
