

Code: R7212306

R07

B.Tech II Year I Semester (R07) Supplementary Examinations, May 2013

MICROBIOLOGY

(Biotechnology)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions
All questions carry equal marks

- 1 Explain the significance of Louis Pasteur's and Robert Koch's experiments in the field of microbiology.
- 2 (a) On what three major criteria did Whittaker divide organisms into five kingdom system?
(b) Discuss the use of G+C content in microbial taxonomy.
- 3 (a) Explain the structure of TMV.
(b) Add a note on applications of phages.
- 4 Enumerate the steps involved in pathogenesis of viral diseases.
- 5 Discuss the different ways in which viruses may be cultivated.
- 6 What are the growth factors? Explain their functions in microbial metabolism.
- 7 Explain the effect of environmental factors on microbial growth.
- 8 Explain what is a Widal test and how is hemagglutination used in clinical diagnosis.
