## Code 9A23304

## 

(Biotechnology)

Time: 3 hours Max Marks: 70

## Answer any FIVE questions All questions carry equal marks

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- 1. (a) Write about germ theory of diseases
  - (b) Write different techniques to identify micro organsims.
- 2. (a) What is the significance of microbial classification? Describe the classification of Carl-Wooese et al.
  - (b) Describe different taxonomic ranks in microbiology with special reference to bacteria.
- 3. (a) Write briefly on nutritional classes of microorganisms.
  - (b) Write a detailed account on different types of media- selective media, differential media and enrichment media.
- 4. (a) Write about use of agar glants, agar stabs for preservation of microorganisms.
  - (b) Write about aims and principles of biochemical test sugar fermentations IMVIC tests and catalase production.
- 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 name of animal viruses and plant viruses.
  - (b) Describe the classification of viruses.
- 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 methods of identification and invitro cultivation of viruses.
  - (b) Write about assay of animal viruses.

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