

## T80/T82/SBI032/SBT032/EE/20160710

**Time : 3 Hours**

**Marks : 80**

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**Instruction :**

1. All Questions are Compulsory.
  2. Each Sub-question carry 5 marks.
  3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
  4. Question paper of 80 Marks, it will be converted in to your programme structure marks.
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1. Solve any **four** sub-questions.
  - a) What is microbiology? Write the various areas of specialization. 5
  - b) Describe the scope and importance of medical microbiology. 5
  - c) Describe germ theory of disease. 5
  - d) Describe the Prokaryotes and Eukaryotes. 5
  - e) Write the Bergey's classification of Bacteria. 5
2. Solve any **four** sub-questions.
  - a) What are nutritional requirements of the microorganisms? 5
  - b) What is meant by Culture? 5
  - c) Describe the various techniques of isolation of pure culture. 5
  - d) Explain the concept of Micro and Macronutrients. 5
  - e) Explain the five stock culture collection centres. 5
3. Solve any **four** sub-questions.
  - a) Describe growth of an Organisms. 5
  - b) What is Generation time? 5
  - c) Write about the Physical conditions required for the growth. 5
  - d) Describe selective media with example. 5
  - e) What is Sporulations? 5

4. Solve any **four** sub-questions.
- a) Describe the various physical methods of sterilization. 5
  - b) What is Disinfection? 5
  - c) Write in brief about Phenol coefficient expt. 5
  - d) What is Lyophilization? 5
  - e) Describe the antimicrobial agents in short. 5

