

Microbiology

Q. P. Code : 27818

(3 Hours)

Total Marks: 80

- NB:
- (1) Question No.1 is compulsory
 - (2) Attempt any 3 questions out of remaining 5 questions
 - (3) Each question is of 20 marks
 - (4) Figures to right indicates full marks

1. Write a note on any four (20)
 - (a) Differential Media
 - (b) Continuous culture
 - (c) Autoclave
 - (d) Antibacterial agents
 - (e) Lyophilization
2. (a) Discuss various phases of growth curve with diagrammatic representation (10)
(b) Describe the effect of temperature, ion concentration & UV light on microbial growth curve (10)
3. (a) Discuss in brief nutritional requirement of microorganisms (10)
(b) Discuss different radiation methods of sterilization (10)
4. (a) Discuss various techniques for preservation of microbial cultures (10)
(b) Write in brief various antimicrobial sensitivity test (10)
5. (a) Discuss the experiments of Pasteur in significance of fermentation (10)
(b) Discuss epidemiology of any two bacterial infectious diseases (10)
6. (a) Write in detail different microbiological analysis of water sanitary test (10)
(b) Discuss a unit classification of microorganisms (10)
