



**Q.1. Answer the following short questions: (6x5=30)**

- i. Distinctive characteristics of major groups of microorganisms
- ii. Microbiological media
- iii. Methanogens and red extreme halophiles
- iv. Airborne diseases
- v. Microbial examination of drinking water
- vi. Characteristics of bacterial colony

**Answer the following questions. (3x10=30)**

- Q.2 Write a detailed note on history of microbiology.**
- Q.3 Give a comprehensive note on nutritional requirements of microorganisms.**
- Q.4 Discuss about cell wall of Gram-negative bacteria and Gram-positive bacteria.**