

V.P. Science College  
Internal Exam  
B.Sc. Sem III  
Microbiology  
US03CMIC02



Day: Saturday

Date: 11/10/2014

Time: 2:00 to 3:30 p.m.

Total Marks: 25

**Q-1 Answer the following Multiple Choice Questions. (03)**

- 1) Bacteria are included in this kingdom of Whittaker's classification  
a) Protista b) Fungi c) Monera d) Animalia
- 2) The organisms using organic compounds as carbon source are called  
a) Lithotrophs b) Autotrophs c) Heterotrophs d) Phototrophs
- 3) Bacteriophages were discovered by  
a) Twort & D'Herelle b) D'Herelle & Theiler c) Pasteur & Koch d) None

**Q-2 Answer in brief. (Any two) (04)**

- 1) Explain Haeckel's classification.
- 2) Describe the use of Peptone in culture media.
- 3) Define: a) Virulent phage b) Prophage

**Q-3 What is base composition? Discuss nucleic acid hybridization in bacterial classification. (06)**

OR

**Q-3 Write in detail on Numerical taxonomy. (06)**

**Q-4 Describe nutritional requirements of bacteria (06)**

OR

**Q-4 Explain types of media on the basis of their function (06)**

**Q-5 Enlist various methods used for cultivation of animal viruses and explain any one in detail. (06)**

OR

**Q-5 Write in detail on Lysogeny. (06)**