



**V. P & R. P. T. P Science College**  
**Microbiology ( Sem -III )**  
**USO3CMIC21**  
**Internal test**

**Date: 1/10/2019**

**Time: 3:00 p.m to 4:15 p.m**

**Figures on right indicate marks**

**Marks: 25**

Que: 1) Attempt the following multiple choice questions.

(05)

- 1) The mechanism of phagocytosis was discovered by \_\_\_\_\_.  
a) Paul Ehrlich    b) Joseph Lister  
c) Robert Koch    d) Elie Metchnikoff
- 2) Generation of proton motive force in bacteria occurs here.  
a) Cell wall    b) Cell membrane  
c) Capsule    d) Cytoplasm
- 3) This is an acidic dye.  
a) Gention violet    b) Basic fuchsin  
c) Eosin yellow    d) Malachite green
- 4) This microscopy provides 3-dimensional details of the object under study.  
a) Fluorescent    b) Phase contrast  
c) TEM    d) SEM
- 5) This division includes bacteria devoid of cell wall.  
a) Gracilicutes    b) Tenericutes  
c) Firmicutes    d) Mendosicutes

Que: 2) Write a note on: "Germ theory of disease"

(05)

OR

Que: 2) Discuss the principle of Immunization.

(05)

Que: 3) Describe the cell wall of gram negative bacteria.

(05)

OR

Que: 3) Neatly draw and explain the stages of sporulation in bacteria.

(05)

Que: 4) Write the procedure and mechanism of gram's staining.

(05)

OR

Que: 4) (a) Write a note on phase contrast microscope

(03)

(b) Differentiate between TEM and SEM.

(02)

Que: 5) Write a note on Whittaker's classification system.

(05)

OR

Que: 5) Discuss the criteria used in classification of bacteria.

(05)