

V.P & R.P.T.P SCIENCE COLLEGE  
Vallabh Vidyanagar  
Internal Test –October 2017  
B.Sc Semester III  
Microbiology - US03CMIC01



Date: 04-10-2017  
Time : 3.00 pm to 4.30 pm

Total Marks: 25

N.B. (i) Attempt All Questions. (ii) Marks are indicated on the right.

**Q.1. Select the most appropriate answer:** (03)

- 1) The process of phagocytosis was discovered by:  
(a) John Tyndall (b) Joseph Lister  
(c) Robert Koch (d) Elie Metchnikoff
- 2) The group that imparts color to the dye molecule is:  
(a) Auxochrome (b) Chromophore  
(c) Both a & b (d) Fluorochrome
- 3) Cluster of flagella present at both the polar ends is called:  
(a) Monotrichous (b) Lophotrichous  
(c) Amphitrichous (d) Peritrichous

**Q.2. Answer in short (Any Two)** (04)

- 1) Write one contribution each of Joseph Lister & M. Beijerinck.
- 2) Explain the role of Mordant in staining.
- 3) Write two functions of Bacterial Capsule.

**Q.3. Write notes on Spontaneous generation theory.** (06)

OR

**Q.3. Discuss the contributions of Robert Koch in the development of Bacteriology.** (06)

**Q.4. Discuss Gram staining in detail.** (06)

OR

**Q.4. Answer the following:**

- (a) Write a note on chemistry of dyes. (03)
- (b) Draw a neatly labeled diagram of a typical bacterial cell (03)

**Q.5. Explain the structure & functions of Cell Wall** (06)

OR

**Q.5. Discuss the structure of Endospore.** (06)

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