# V.P. & R.P.T.P. Science College Internal test (September-2013) USO3CMIC01

## Time: 1.00 to 2.30 pm Monday, 30<sup>th</sup> Sep' 2013

#### Maximum Marks: 30

N.B. (1) Attempt All Questions. (2) Marks are indicated on the right.

### Q.1. Select the right Answer:

1) Pebrine disease of silk worm was first investigated by :

- a) Louis Pasteur
- b) Paul Ehrlich d) Emil Von Behring

c) Edwin Kleb

2) The process of phagocytosis was discovered by:

- a) Robert Koch c) John Tyndall
- b) Elie Metchnikoff d) Joseph Lister

3) The component which imparts color to the dye molecule is:

- a) Auxochrome c) Chromophore
- b) Fluorochrome d) None of these

4) The chemical responsible for Acid fastness in bacteria is:

- a) Polypeptide c) Mycolic acid
- b) Gycogen d) Polyphosphate

### 5) A sheath is present around the cells of genera:

- a) Escherichia coli c) Sphaerotilus natans
- b) Bacillus anthracis d) none of these

6) Calcium Dipicolinate is present in large amount in:

- a) Endospore c) Mesosome
- b) Capsule d) Ribosome



(06)



## Q.2. Answer in short: (Any Three)

1) Explain the terms 'Attenuation' & 'Pure Culture'. 2) List one contribution each of, S. Winogradsky & Paul Ehrlich in the development of Microbiology. 3) What is the necessity of staining in microbiology? 4) What is Vital staining?Name two types of vital staining. 5) Name any two cytoplasmic inclusions in bacterial cells & give its significance. 6) Write two functions of cytoplasmic membrane in bacterial cells. Q.3. Explain the germ theory of Fermentation. (06)OR Q.3. Explain the germ theory of Disease. (06)Q.4. What is gram staining? Explain the role of mordant & decoloriser in this procedure. (06)OR Q.4. (a) Write on: Chemistry of Dye. (03)(b) Draw a neatly labeled diagram of a typical bacterial cell. (03)

Q.5. With the help of a neatly labeled diagram, Explain the Structure of Bacterial Cell Wall. (06) OR

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(06)