



V.P. & R.P.T.P. SCIENCE COLLEGE

Vallabh Vidyanagar

B.Sc.; Semester III

Internal Examination

Microbiology

US03CMIC02

Tuesday: 04.10.16;

03.00- 04.30 p.m.

Total Marks:25

Q.1. Attempt the following multiple choice questions.

(03)

1. The organism which uses carbon di oxide as the sole source of carbon is called

- (a) chemotroph (b) heterotroph
(c) autotroph (d) phototroph

2. Which of the following are used for arranging bacteria into taxa?

- (a) The intuitive method (b) Numerical taxonomy
(c) Genetic relatedness (d) All of the above

3. Capsid is made up of morphological subunits called

- (a) Nucleases (b) Capsomeres
(c) Glycoproteins (d) Ligases

Q.2. Attempt any two of the following briefly:

(04)

1. Write down Haeckel's classification.
2. Explain the mechanism of MacConkey's medium.
3. Cite two examples of viral vaccines prepared using embryonated egg technique.

Q.3. (a) Explain DNA homology method for classifying bacteria.

(03)

(b) Write a note on Whittaker's five kingdom concept.

(03)

OR

Q.3. Enlist and describe any three criteria used in the classification of bacteria.

(06)

Q.4. Describe nutritional requirements of bacteria.

(06)

OR

Q.4. Explain common ingredients of culture media.

(06)

Q.5. In what ways have animal viruses been cultivated in vitro?

Explain any one of them in detail.

(06)

OR

Q.5. Describe lytic cycle in bacteriophages.

(06)
