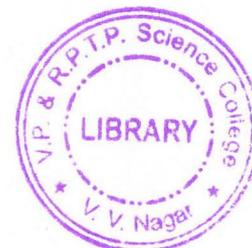


Q-1 Attempt the following multiple choice questions. (06)

- (1) Bacteria are included in this kingdom of Whittaker's classification.
(a) Monera (b) Protista (c) Fungi (d) Animalia.
- (2) The suffix - ceae is assigned to this category of taxonomic rank.
(a) Species (b) Genus (c) Family (d) Order..
- (3) The organism which uses organic compound as carbon source are called
(a) Chemotrophs (b) Heterotrophs (c) Autotrophs (d) Lithotrophs.
- (4) This can be used as a solidifying agent
(a) Agar agar (b) Silica Gel (c) Gelatin (d) All of them.
- (5) Cell cultures today are the method of choice for propagation of viruses because of:
(a) relative economy of maintenance compared to animals
(b) Observable cytopathic effects
(c) Choice of cells for their susceptibility to particular viruses
(d) All of them.
- (6) Bacteriophages were discovered independently by
(a) F.W. Twort & Felix D'Herelle. (b) Felix D'Herelle & Max Theiler
(c) Louis Pasteur & Robert Koch (d) None of the above.



Q-2 Attempt the following (any three) (06)

- 1) Give the names of divisions of Bergey's manual of systematic bacteriology.
- 2) Define (a) Classification. (b) Type Strain.
- 3) Write in brief on Chemotrophs.
- 4) Describe the significance of peptone in culture media.
- 5) What is a temperate phage?
- 6) What is the role of immunity repressor or repressor protein in lysogeny?

Q-3 Discuss antigenic & cultural characteristics in classification. (06)

OR

Q-3 Write on genetic methods of classification. (06)

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

OR

Q-4 Explain various media based on application and function. (06)

Q-5 Describe the use of embryonated eggs for cultivation of animal viruses. (06)

OR

Q-5 Describe the lytic cycle in bacteriophages. (06)