CHAPTER 2 BIOLOGICAL CLASSIFICATION

Multiple choice questions

- 1. All eukaryotic unicellular organisms belong to
- a. Monera
- b. Plantae
- c. Protista
- d. Fungi
- 2. Contagium vivum fluidum was proposed by
- a. D.J.Ivanowsky
- b. M.W.Beijerinck
- c. Stanley
- d. Robert Hooke
- 3. Difference between virus and viroid is
- a. Absence of protein coat in viroid but present in virus.
- b. Presence of low molecular weight RNA in virus but absent in viroid.
- c. Both (i) and (ii)
- d. None of the above.
- 4. Mycobiont and phycobiont are found in
- a. Mycorrhiza
- b. Root
- c. Lichens
- d. Fern
- 5. Specialised cells, called heterocysts are present in some
- a. Dinoflagellates
- b. Cyanobacteria
- c. Archaebacteria
- d. Chrysophytes
- 6. Three domain classification has
- a. Six kingdoms
- b. Four kingdoms
- c. Five kingdoms
- d. Three kingdoms
- 7. Which of the following is a characteristic feature of Chrysophytes?
- a. They are all parasites on animals.
- b. They have a protein-rich layer, called pellicle.
- c. Their cell wall is indestructible as it is impregnated with silica.
- d. They are called Euglenoids.
- 8. The group of fungi which is responsible for the disease in plants, called rusts and smuts belong to the class
- a. Phycomycetes
- b. Ascomycetes
- c. Basidiomycetes
- d. Deuteromycetes
- 9. The protist. Which releases toxins that kill fishes and other marine animals, is
- a. Euglena
- b. Paramoecium
- c. Entamoeba

- d. Gonyaulax
- 10. Identify the incorrect statement from the following
- a. Methanogens and Archaebacteria which live in marshy area and produce methane gas.
- b. Nostoc is a filamentous blue-green alga that can fix atmospheric nitrogen.
- c. Chemosynthetic autotrophic bacteria can synthesize cellulose and starch from glucose
- d. Mycoplasma lack a cell wall and survive without oxygen.

Answer the following: (2 marks)

- 1. Euglena is both an autotroph and a heterotroph. Justify.
- 2. Give any four important characteristics of mycoplasma.
- 3. Write the characteristic features of Euglenoids.
- 4. Differentiate between (i)Ascomycetes and Basidiomycetes (ii) Chrysophytes and Dinoflagellates
- 5. A virus is considered as a living organism and an obligate parasite when inside a host cell. But virus is not

classified with bacteria or Fungi. What are the characters of virus that are similar to non-living objects?

- 6. Why are Deuteromycetes commonly known as imperfect fungi? Mention two haracteristics of mycelium of such fungi.
- 7. Find out what do the terms "algal bloom"& "red tides" signify?

Answer the following: (3 marks)

- 1. Describe the three common steps in the sexual reproduction of fungi.
- 2. Mention 6 characteristic features of dinoflagellates.
- 3. In which group are the following found: Conidia, Zygospore and Ascospore.
- 4. Write a brief note on actinomycetes.
- 5. What is diatomaceous earth? Mention any two economic uses of it.
- 6. What are chemoautotrophic bacteria? How they obtain energy?

Answer the following: (5 marks)

- 1. Make a comparative account of the five kingdoms on the following characters
- (i) Cell wall (ii) Body organization.
- 2. Explain the structure of bacteriophage with the help of a labelled diagram..