C 25112

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2012

(CCSS)

Core Course—Microbiology

MB2 B02—MICROBIAL TAXONOMY

Time : Three Hours   Maximum Weightage : 30

I. Objective type questions. Answer all *twelve* questions :

1 Characteristic of coenocytic hyphae is :

    (a) Non septate.   **(b)** Septate with uninucleate.

    (c) Septate with multi nucleate.   (d) None of these.

2 An ascomycetes which is widely used in genetic study is :

    (a) Pisum sativum   (b) Neurospora crassa.

    (c) Agrobacterium.   (d) Arabidopsis thaliane.

3 A ciliated protozoa is :

    (a) Euglena.   (b) Paramecium.

    (c) Trypanosoma.   (d) Amoeba.

4 Five kingdom classification is proposed by :

    (a) R.H. Whittaker.   (b) Woese et al.

    (c) Cava lies smith.   **(d)** E. Haeckel.

5 Culture that consist of single kind of micro organism is called _____

6 Xanthomonas produces a characteristic yellow pigment is called _____

7 Lichens are association of _____ and _____

8 Plant like form of protozoa is coming under the class _____

9 Name an organism which exhibit magneto taxis.

10 An archaeobacteria which lacking a cell wall

11 Name an anaerobic gram-ye cocci.

12 Name a bacteria which posens bacteria chlorophyll.

(12 x ¼ = 3 weightgae)

Turn over

II. Short answer type questions. Answer all *nine* questions.

    13 What is dimorphism ?

    14 What is a sporangium ?

    15 Coenzymes present in Methanogens.

    16 What is syngamy ?

    17 Locomotor organelles of protozoa.

    18 What is temperate phage ?

    19 What is institute method of classifying bacteria.

    20 What is a spheroplast ?

    21 What is a 'type strain' ?

                                                              (9 x 1 = 9 weightage)

III. Short essay or paragraph questions answer any *five* :

    22 Replication of viruses.

    23 Properties of viruses.

    24 Importance of protozoa.

    25 Explain alternation of generation with example.

    26 Discuss about reproduction of protozoa.

    27 Explain DNA hybridization.

    28 Characteristics features of Rickettsiaceae.

                                                              (5 x 2 = 10 weightage)

IV. Essay questions. Answer any two :

    29 Summarize classification of protozoa with suitable example.

    30 Discuss about molecular approaches used in microbial taxonomy.

    31 Discuss about economic and health benefits of fungi.

                                                              (2 x 4 = 8 weightage)