

D 31397

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Name

Reg. No.

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2012

(CUCSS)

Microbiology

MB 3E 03—MICROBIAL TAXONOMY

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Write short answers to the following. Answer *all* questions. Each carries 1 weightage :

- 1 Phage typing.
- 2 Ribotyping.
- 3 Planctomycetes.
- 4 G + C ratio.
- 5 Sulpholobus.
- 6 Von Nageli.
- 7 Taxa.
- 8 Jaccard coefficient.
- 9 Heteroduplex.
- 10 DNA hypochromicity.
- 11 Phenetic classification.
- 12 Serotype.
- 13 Binomial system.
- 14 Barophiles.

(14 x 1 = 14 weightage)

II. Write short paragraph answer to the following. Answer any *seven* questions. Each carries 2 weightage :

- 15 Three domain classification.
- 16 Fluorescence *in situ* hybridization.
- 17 Ibs and RNA sequencing.
- 18 Distinguishing features of Archea.
- 19 Proteobacteria.
- 20 Characteristics of Whittaker five kingdom classification.

Turn over

- 21 DNA finger printing.
- 22 Characteristics of Halophiles.
- 23 Bergey's Manual of systematic Bacteriology.
- 24 Molecular approaches in classification.

(7 x 2 = 14 weightage)

III. Explain the following. Answer any *two* questions. Each carries 4 weightage :

- 25 Different approach in bacterial classification.
- 26 Various criteria's used in classification of bacteria.
- 27 Molecular techniques employed for identification of bacteria.

(2 x 4 = 8 weightage)