



RAN-7023

B. Sc. Microbiology (Sem-IV) Examination

March / April - 2019

MB 08: TAXONOMY OF PROKARYOTES (OLD)

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B. Sc. Microbiology (Sem-IV)

Name of the Subject :

MB 08: TAXONOMY OF PROKARYOTES (OLD)

Subject Code No.: 7 0 2 3

Seat No.:

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Student's Signature

Instructions:

1. Draw neat and labeled diagram, wherever necessary.
2. Figures to the right indicate full marks of the questions.

Q.1 Give the specific answer of following questions. [12]

- a. What do you mean by Nomenclature and Classification?
- b. Define:
 - 1) Classical characteristics
 - 2) Molecular characteristics
- c. Name 2 orders of class *Betaproteobacteria*.
- d. Mention Class and Order of Euryarchaeal sulphate reducers.
- e. Name three Classes of low G + C Gram positive bacteria.
- f. Name the Orders of Class *Mollicutes*.

Q.2 Explain/Comment the following with suitable example. [Any two] [12]

- a. Comment on: Microbial evolution is considered to be more like a web or net.
- b. Explain on Order *Bdellovibrionales*.
- c. What are Halobacteria? Explain giving examples.

- Q.3 Answer the followings. [Any two] [16]**
- Give a detail account on Taxonomic ranks.
 - Mention in detail on Order: *Enterobacteriales*.
 - Elaborate on Class: *Clostridia*.

- Q.4 Write a short note on following. [Any two] [10]**
- Thermoplasms.
 - Phylum: *Spirochaetes*.
 - Properties of "The High G+C Gram positives."
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