



RAN-0937

B. Sc. Microbiology SEM-IV Examination

March / April - 2019

MB 08: Bacterial Taxonomy (New)

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

1.

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: Bacterial Taxonomy (New)

Subject Code No.: **0 9 3 7**

Seat No.:

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Student's Signature

2. Figures to the right indicate full marks of the questions.
3. Draw neat and labeled diagrams whenever necessary.

Q.1 Give the specific answer of following questions.

[12]

- a. Give full name of 1) LUCA and 2) HGT.
- b. Give 2 examples of each of halophilic and thermophilic *Archaea*.
- c. Give 2 examples of members of class *Mollicutes* along with their property.
- d. What are the habitats of bacteria included in class *Epsilonproteobacteria*.
- e. Enlist general features of genus *Bdellovibrio*.
- f. What is parasporal body? Who does produce it?

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

- a. Mitochondria and chloroplast arose by the incorporation of Endosymbiotic bacteria.
- b. Well characterized Archaea can be divided into 5 major groups.
- c. Explain features of the order, which includes genus *Thiobacillus*.

Q.3 Answer the followings. [Any two] [16]

- a. Enlist molecular characteristics used to classify microorganisms. Discuss any 2 of them in detail.
- b. Draw a labeled diagram of spirochete morphology. Explain features of phylum *Spirochetes*.
- c. Explain features of order *Enterobacteriales*.

Q. 4 Write a short note on following. [Any two] [10]

- a. HP/HB cycle.
 - b. The concept and definition of microbial species.
 - c. Bergey's manual of systematic bacteriology.
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