



RAN-1168

B.Sc. - Microbiology Sem-VI Examination

March / April - 2019

MB 19: Economic Microbiology

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-VI

Name of the Subject :

MB 19: Economic Microbiology

Subject Code No.: 1 1 6 8

Seat No.:

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Student's Signature

Instruction:

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

Q 1

Give the specific answers

12

- 1) Enlist four different carbon sources used in glutamic acid production.
- 2) Give four example of microbes use as phosphate solubilizers.
- 3) What is Ariboflavinosis? How it can be cure?
- 4) List four important exopolysaccharides produced commercially.
- 5) Which different types of fermentable substrates are used for alcohol production?
- 6) Enlist the factors affecting biosorption of metals.

Q 2

Explain or justify any two of the followings

12

- 1) Penicillin makes possible the use of high biotin content culture media in glutamic acid production.
- 2) Quality control is essential for Rhizobium inoculants.
- 3) Commercial processes are used for microbial leaching.

- Q 3** **Attempt any two of the followings** **16**
- 1) Discuss industrial applications of immobilized enzymes and cells.
 - 2) Define biogas. Describe biogas production in detail.
 - 3) Describe bioremediation of Xenobiotics.
- Q 4** **Write short note on any two of the followings** **10**
- 1) Production processes of Acetone/Butanol fermentation
 - 2) Biosensor in medical diagnosis
 - 3) Recovery of petroleum
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