



RAN-1099

B. Sc. Environment Science SEM-V Examination

March / April - 2019

ENV - 504: Environmental Microbiology

[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. Environment Science SEM-V

Name of the Subject :

ENV - 504: Environmental Microbiology

Subject Code No.:

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9

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Seat No.:

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Student's Signature

Instructions:

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

Q.1 Give specific answers:

12

1. What is threshold value? Give its importance.
2. What are the major microbial genera occur in the bottom of the Winogradsky column?
3. Define: intramural and extramural environment.
4. Name two techniques to cultivate microbial community of soil.
5. What is LPS? Give its pathogenicity.
6. What is CSLM? Give its function.

Q.2 Comment on/explain any two of the following:

12

1. Potable water must follow the WHO standards.
2. There is negative interaction among microorganisms.
3. There is difference between permissible limit and desirable limit.

Q.3 Attempt any two of the following: 16

1. Detail account on physical and chemical properties of soil.
2. Give detail account of sulphide-based microbial mutualisms.
3. Discuss in detail air born plant pathogens and its impact.

Q.4 Write short notes on any two of the following: 10

1. Nature of bioaerosols.
 2. Protocooperation: Marine worm & bacteria.
 3. Microorganisms of phyllosphere.
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