



RAN - 2003000205020174

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T. Y. B. Sc. (Sem. - V) Examination March - 2023

ENV - 504 : Environmental Microbiology

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृश्यावलोकन निशानीवाणी विगतो उत्तरवली पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Sem. - V)

Name of the Subject :

ENV - 504 : Environmental Microbiology

Subject Code No.: **2003000205020174**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labeled diagrams whenever necessary.

Q. 1

Give specific answers:

12

1. Give full forms: TOC and VOC.
2. Name major microbial genera occur in the bottom of the Winogradsky column?
3. What is aerosols? What is particles size of particulate matters?
4. Give two name of microscopic technique which used to study microbial morphology.
5. What is LPS? Give two example of water-born diseases.
6. Define terms:
 - (1) microbial loop
 - (2) microbial mats

Q. 2

Comment on / explain any two of the following:

12

1. MPN is most suitable technique used to analyses drinking water.
2. There are many difference between role of microbes in Rhizosphere and phyllosphere.
3. Rhizobia are useful as bio-fertilizer.

- Q.3** **Attempt any two of the following:** **16**
1. Detail account on steps of aeromicrobiological pathway.
 2. Give detail account on negative interactions relationship with suitable example.
 3. What is pathogen? Explain with suitable examples on pathogens of ambient animal pathogens.

- Q.4** **Write short notes on any two of the following:** **10**
1. Airborne Toxins.
 2. Biochemical pathways in rumen ecosystem.
 3. Methods to study soil microbes.
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