



RAN-1031

B.Sc. (Microbiology) (Sem-V) Examination

March / April - 2019

MB-16 Environmental Microbiology

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

1.

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

Name of the Examination:

B.Sc. (Microbiology) (Sem-V)

Name of the Subject :

MB-16 Environmental Microbiology

Subject Code No.: 1 0 3 1

Seat No.:

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Student's Signature

2. Figures to the right indicate full marks.
3. Draw neat and labelled diagrams wherever necessary.

Q.1: Give specific answers :

(12)

- a) What is aerosol ? State its size .
- b) Name at least two chemicals used to reduce external seed borne TMV infection
- c) Define : Hypoplasia and Hyperplasia
- d) Give two examples of Hyperthermophiles.
- e) Differentiate between potable water and polluted water.
- f) What are Thalassohaline and Athalassohaline waters ?

Q.2: Explain / Comment on / Justify Any Two of following : (12)

- a) Atmospheric temperature and humidity affects microbial flora.
- b) Special procedures are necessary to determine the sanitary quality of water
- c) Enlist methods for enumeration of air microflora. Describe impingement and centrifugation techniques in detail.

Q.3: Discuss Any Two of the following (16)

- a) Sequential aerobic and anaerobic digestion is effective for sewage treatment
- b) Discuss pathogen, symptoms and prevention strategies for “Powdery Mildew of Wheat”
- c) Describe habitat , biochemistry and physiology of adaptation in extreme acidophiles

Q.4: Write Short notes on Any Two of the following (10)

- a) Entry of plant pathogen in host
 - b) Septic Tanks
 - c) Barophiles
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