



DG-3140

B. Sc. (Microbiology) (Sem. V) Examination
March/April - 2016

MB-16 : Environmental Microbiology

Time : 2 Hours]

[Total Marks : 50

Instructions : (1)

नीचे दशांशिक निशानोंवाणी विगतो उत्तरवही पर अवश्य लिखनी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :

Name of the Subject :

Subject Code No. : Section No. (1, 2,.....) :

Seat No. :

Student's Signature

- (2) Figures to the **right** indicate full marks of the question.
(3) Draw neat and labelled diagram wherever necessary.

Q.1 Give specific answers.

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- Give two examples of hyperthermophiles.
- What is bulking sludge? How does it form?
- Explain the terms: i) Gall formation, ii) Necrosis.
- What is aerosol? State its size.
- Which conclusions were made by Horsfall and Dimond about definition of plant disease?
- Name four psychrotolerant bacterial genera responsible for food spoilage.

Q.2 Explain/comment on any two of the following.

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- Different methods are used to measure carbon content removed during waste water treatment.
- Sedimentation and precipitation techniques are suitable for enumeration of air microflora.
- Some microbes have capacity to thrive in environments with alkaline pH.

Q3. Discuss any two of the following.

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- a. Define coliforms. Explain various tests routinely performed to analyze potability of water.
- b. Discuss pathogen, symptoms and prevention strategies for “powdery mildew of wheat”.
- c. Explain biochemistry and physiology of adaptation in thermophiles.

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

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- a. Methods for purification of drinking water.
 - b. Plant-pathogen relationship.
 - c. Kinds of microbes in air.
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