



DMM-3085

B. Sc. (Sem. IV) (Microbiology) Examination

March / April - 2016

MB-10 : Microbial Ecology

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशों में निशानीवाणी विगतो उत्तरवही पर अवश्य लिखनी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. Sc. (SEM. 4) (MICROBIOLOGY)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MB-10 : MICROBIAL ECOLOGY"/>	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="0"/> <input type="text" value="8"/> <input type="text" value="5"/>	Section No. (1, 2,.....) : <input type="text" value="NIL"/>
Student's Signature	

(2) Figures to the right side indicate full marks of the question.

(3) Draw neat and labelled diagrams whenever necessary.

1 Give specific answers : 10

(a) Define the following :

(i) Mineralization

(ii) Immobilization

(b) What is amensalism ? Give an example.

(c) Define :

(1) Phytoplankton

(2) Picoplankton

(d) Differentiate between humic and nonhumic Soil Organic Matter.

(e) What is Nitrogen Saturation Point ?

2 Explain/comment on any two of the following : 12

(a) Two-way relationship between mycorrhizal fungi and the plant host.

(b) Water as microbial habitat

(c) Cooperative relationship.

- 3** Discuss any two of the following in detail : **16**
- (1) Elaborate on carbon cycle.
 - (2) Give a detailed account of Coastal Marine System.
 - (3) Explain in detail : Soil microbial community.
- 4** Write short notes on any three of the following : **12**
- (1) Phosphorous cycle
 - (2) Root nodule formation
 - (3) Methane based mutualism
 - (4) Microbial adaptations to marine and freshwater environments.
-