



SB-3562

M. Sc. In Microbiology (Part-II) Examination

March / April – 2011

Microbial Biotechnology : Paper - VIII

Time : 3 Hours]

[Total Marks : 54

Instructions :

(1)

नीचे दर्शायेव निशानीवाणी विगतो उत्तरवही पर अवश्य कर्जवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
M. Sc. In Microbiology (Part-II)	<input type="text"/>
Name of the Subject :	<input type="text"/>
Microbial Biotechnology : Paper - VIII	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 5 <input type="text"/> 6 <input type="text"/> 2	<input type="text"/>
Section No. (1, 2,.....): <input type="text"/> Nil	
	Student's Signature

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

(3) Draw neat and labeled diagrams whenever necessary.

1 Answer the following : (Any **three**) 15

- (1) Define : Growth Yield. Discuss the factors affecting growth yield and its kinetics.
- (2) Discuss in detail about chemostat and its kinetics.
- (3) Explain the fermentative production of siderophores.
- (4) Elaborate on biotechnological innovations in chemical industries.

2 Answer the following : (Any **three**) 12

- (1) Discuss the fermentation proper of soy sauce.
- (2) Elaborate your views on production of organic acids as food additives.
- (3) Discuss in detail about microbial production of biopolymers.
- (4) What are biofuels ? Explain the microbial production of biofuels.

- 3** Answer the following : (any **three**) **12**
- (1) Discuss about use of bacteria for single cell protein production.
 - (2) Elaborate on biosensors at nano level.
 - (3) Discuss the production of oyster mushroom in detail.
 - (4) Elaborate your view on scanning tunneling microscope.
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- 4** Write a note on : (any **three**) **15**
- (1) Nanomedicines
 - (2) Bioplastics
 - (3) Insulin production
 - (4) Biofertilizer.
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