



**RF-3696-97**

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

**April / May – 2010**

**Microbial Biotechnology : Paper - VIII**

Time : 3 Hours]

[Total Marks : 54

**Instructions :**

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="checkbox"/> M. SC. (MICROBIOLOGY) (PART - 2)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> MICROBIAL BIOTECHNOLOGY - 8	<input type="text"/>
Subject Code No. : <input type="text" value="3"/> <input type="text" value="6"/> <input type="text" value="9"/> <input type="text" value="6"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	<input type="text"/>
	Student's Signature

- (2) Figures to the right indicate full marks of the question.  
(3) Draw neat and labelled diagrams whenever necessary.  
(4) Both sections must be written in separate answer books.

- 1 (a) Discuss in detail about impact of biotechnology in the production of biopolymers. **9**  
(b) Discuss in detail about the production of single cell protein and its nutritional value. **9**

**OR**

- 1 (a) Discuss in detail about Biogas production and its significance. **9**  
(b) Elaborate on the production of food additives. **9**
- 2 Justify the following statements : (any three) **9**  
(a) Algae based biofuels have potential environmental advantages.  
(b) Biotechnological industries are interested in large scale production of biopolymers.  
(c) Hops make up an important ingredient in beer production.  
(d) Moromi stage is significant in soy sauce fermentation.  
(e) Ergot alkaloids continue to be of great interest as drugs.

**3** Elaborate your views on different types of biosensors and their mechanism. **12**

**OR**

**3** Discuss in detail about production aspects of edible mushrooms. **12**

**4** Write short notes on : (any three) **15**

(a) Production of polyhydroxybutyrate

(b) Yoghurt fermentation

(c) Production of anticancer agent

(d) Biofuels

(e) Cyanocobalamin fermentation.

---