



**SB-3752**

**M. Sc. In. Env. Science (Sem. II) Examination**  
**March / April - 2011**

**ENS - 202 : Biotechnology & Environmental  
Health, Safety**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृष्टावेक 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. IN ENV. SCIENCE (SEM. 2)	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="checkbox"/> ENS - 202 : BIOTECHNOLOGY & ENVIRONMENTAL HEALTH, SAFETY	<input type="text"/>
Subject Code No. : <input type="text"/> 3 <input type="text"/> 7 <input type="text"/> 5 <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 labelled diagrams whenever necessary.

1 Describe in detail about any **three** : 18

- (a) Rare, Endemic and endangered species of India.
- (b) Nitrogen fixation by symbiotic microorganism.
- (c) Biodegradation of xenobiotic compounds.
- (d) Various agents of microbial pesticides with its limitations.

2 Attempt any **three** : 18

- (a) Describe methods of bioleaching and explain about copper recovery from low grad ore.
- (b) Explain about degradation of pesticides.
- (c) Elaborate on bioremediation of metal.
- (d) Discuss about properties, application and limitation of bioplastics.

- 3** Attempt any **three** : **18**
- (a) (1) Threshold limit
  - (2) Chronic Exposure
  - (3) Risk transfer
  - (4) Toxicity
  - (5) Hazards
  - (6) Risk factor
- (b) How toxicants are eliminated from biological organisms?
- (c) What are carcinogenic compounds and explain determination method of any one of them.
- (d) What are the different occupation health risks ?
- 4** Attempt any **two** : **16**
- (a) Discuss in detail Risk identification methods.
  - (b) What is meant by LD50 does ? Write a note on Filaria Eradication program.
  - (c) Discuss the importance of hygiene education. Write a note on WHO and its functions in public health.
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