



**SB-3704**

**M. Sc. (In. Bio-Technology) (Sem. VI)  
Examination**

**March / April - 2011**

**IBT - 604 : Environmental Biotechnology**

Time : 3 Hours]

[Total Marks : 70

**Instructions :**

(1)

नीचे दृशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी.  
Fillup strictly the details of signs on your answer book.

Name of the Examination :

**M. SC. (IN. BIO-TECHNOLOGY) (SEM. 6)**

Name of the Subject :

**IBT - 604 : ENVIRONMENTAL BIOTECHNOLOGY**

Subject Code No. : **3 7 0 4** Section No. (1, 2,.....) : **NIL**

Seat No. :

Student's Signature

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

(3) Draw neat and labelled diagrams whenever necessary.

1 Answer the following : (any three) 18

- (i) Define : sewage. Give the characteristics of sewage.
- (ii) Explain in detail about "Municipal Waste Water Treatment".
- (iii) Write note on land filling.
- (iv) Explain about anaerobic sludge digestion.

2 Answer the following : (any two) 18

- (i) Elaborate on bioremediation of oil spillage.
- (ii) Explain about the biodegradation of xenobiotic compounds.
- (iii) Write note on phytoremediation.

- 3** Answer the following : (any three) **18**
- (i) Write note on biogas.
  - (ii) Describe methods of bioleaching and explain about copper recovery from low grade ore.
  - (iii) Write detailed note on PGPR as biofertilizer.
  - (iv) Discuss about the production aspects of bioethanol.
- 4** Attempt any two : **16**
- (i) Elaborate on methods of conservation of biodiversity.
  - (ii) Enlist threatened species and discuss in detail about major factors affecting loss of biodiversity.
  - (iii) Discuss micropropagation as a remedy for reforestation.
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