



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)

<p>नीचे दृशावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कपवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination :</p> <p>M. SC. (IN. BIO-TECHNOLOGY) (SEM. 6)</p> <p>Name of the Subject :</p> <p>IBT - 604 : ENVIRONMENTAL BIOTECHNOLOGY</p> <p>Subject Code No. : 3 7 0 4 Section No. (1, 2,.....) : NIL</p>	<p>Seat No. :</p> <table border="1" style="width: 100%; height: 20px;"><tr><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td><td style="width: 15%;"></td></tr></table> <div style="border: 1px solid black; border-radius: 15px; height: 60px; margin-top: 10px; display: flex; align-items: center; justify-content: center; padding: 10px;">Student's Signature</div>						

- (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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