

Code No: R05312303

R05

Set No. 2

III B.Tech I Semester Examinations, November 2010
ENVIRONMENTAL BIOTECHNOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Compare mining and biomining. what are the advantages and disadvantages of mining and biomining? [16]
2. Discuss about various waste water treatment combinations for treating municipal and industrial waste waters. [16]
3. Write about the following:
 - (a) Basic environmental parameters that influence bioremediation
 - (b) Initial site assessment for soil bioremediation. [8+8]
4. What do you know about biostimulation and bioaugmentation? Explain how these methods are useful in the treatment of hazardous waste. [16]
5. What is composting? Write about the process description and explain the process control for sewage sludge composting. [16]
6. Write short notes on the following:
 - (a) Biological filters
 - (b) Oxidation ditch
 - (c) Aeration
 - (d) Sludge disposal. [16]
7. What are biofuels? How do they differ from other conventional fuels? explain how these fuels are used in environmental protection. [16]
8. How biotechnological methods can be applied for the hazardous waste management? Explain. [16]

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R05

Set No. 4

III B.Tech I Semester Examinations, November 2010
ENVIRONMENTAL BIOTECHNOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Write short notes on the following:
 - (a) Biological filters
 - (b) Oxidation ditch
 - (c) Aeration
 - (d) Sludge disposal. [16]
2. Compare mining and biomining. what are the advantages and disadvantages of mining and biomining? [16]
3. Discuss about various waste water treatment combinations for treating municipal and industrial waste waters. [16]
4. Write about the following:
 - (a) Basic environmental parameters that influence bioremediation
 - (b) Initial site assessment for soil bioremediation. [8+8]
5. What do you know about biostimulation and bioaugmentation? Explain how these methods are useful in the treatment of hazardous waste. [16]
6. What are biofuels? How do they differ from other conventional fuels? explain how these fuels are used in environmental protection. [16]
7. How biotechnological methods can be applied for the hazardous waste management? Explain. [16]
8. What is composting? Write about the process description and explain the process control for sewage sludge composting. [16]

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Set No. 1

III B.Tech I Semester Examinations, November 2010
ENVIRONMENTAL BIOTECHNOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss about various waste water treatment combinations for treating municipal and industrial waste waters. [16]
2. Write about the following:
 - (a) Basic environmental parameters that influence bioremediation
 - (b) Initial site assessment for soil bioremediation. [8+8]
3. What is composting? Write about the process description and explain the process control for sewage sludge composting. [16]
4. What do you know about biostimulation and bioaugmentation? Explain how these methods are useful in the treatment of hazardous waste. [16]
5. Write short notes on the following:
 - (a) Biological filters
 - (b) Oxidation ditch
 - (c) Aeration
 - (d) Sludge disposal. [16]
6. How biotechnological methods can be applied for the hazardous waste management? Explain. [16]
7. What are biofuels? How do they differ from other conventional fuels? explain how these fuels are used in environmental protection. [16]
8. Compare mining and biomining. what are the advantages and disadvantages of mining and biomining? [16]

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Set No. 3

III B.Tech I Semester Examinations, November 2010
ENVIRONMENTAL BIOTECHNOLOGY
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What are biofuels? How do they differ from other conventional fuels? explain how these fuels are used in environmental protection. [16]
2. How biotechnological methods can be applied for the hazardous waste management? Explain. [16]
3. Compare mining and biomining. what are the advantages and disadvantages of mining and biomining? [16]
4. What do you know about biostimulation and bioaugmentation? Explain how these methods are useful in the treatment of hazardous waste. [16]
5. Discuss about various waste water treatment combinations for treating municipal and industrial waste waters. [16]
6. Write about the following:
 - (a) Basic environmental parameters that influence bioremediation
 - (b) Initial site assessment for soil bioremediation. [8+8]
7. What is composting? Write about the process description and explain the process control for sewage sludge composting. [16]
8. Write short notes on the following:
 - (a) Biological filters
 - (b) Oxidation ditch
 - (c) Aeration
 - (d) Sludge disposal. [16]
