

IV B.Tech. II Semester Regular Examinations, April/May -2006
BIODIVERSITY, IPR AND MANAGEMENT OF BIOTECHNOLOGY
(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Define Biodiversity. Discuss the types and levels of biodiversity. [16]
2. What is the importance of biodiversity. Discuss the impact of civilization, pests and pollution on biodiversity. [16]
3. What is sustainable development? Discuss the use of ecosystem components for sustainable development. [16]
4. Write in detail about:
 - (a) In vitro fertilization and embryo transfer. [8]
 - (b) Electrophoresis. [8]
5. Write short notes on the following:
 - (a) Farmers rights
 - (b) Intellectual property Rights
 - (c) Rio declaration
 - (d) Values of biodiversity. [4x4=16]
6. What is DNA finger printing? What is the use of this procedure in biodiversity management. [16]
7. What are the various major International and National conventions on biodiversity and their outcome. [16]
8. What is a patent? What is the need for patenting? Explain the methods of application for patents. [16]

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1. What is biodiversity? What are the causes for loss of biodiversity and what are the steps to be taken to maintain biodiversity. [16]
2. Discuss the approaches for biodiversity assessment and inventory. [16]
3. Discuss the hot spots of biodiversity at global and national level. [16]
4. (a) Discuss Intraspecific genetic diversity. [8]
(b) Write about Innovative techniques in conservation genetics. [8]
5. Write short notes on the following:
(a) Red Data book
(b) Surrogate mother
(c) Copyrights
(d) TRIPS. [4x4=16]
6. What is invitro fertilization and embryo transfer. Explain its importance and applications in biological diversity management. [16]
7. What are the various major National and International conventions on biodiversity and their outcome. [16]
8. Discuss the Intellectual Property Rights and how to protect them. [16]

Code No: RR422306

Set No.3

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Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Define biodiversity? Discuss the magnitude and distribution of biodiversity. [16]
2. Describe the basic principles of ecosystem and discuss the ecosystem analysis.[16]
3. Discuss the major strategies for biodiversity conservation. [16]
4. Write in detail about:
 - (a) Invitro fertilization and embryo transfer. [8]
 - (b) Intellectual Property Rights. [8]
5. Write short notes on the following:
 - (a) Causes for loss of biodiversity
 - (b) Gene banks
 - (c) Patents
 - (d) Trade secrets. [4x4=16]
6. What are the various innovative techniques in conservation genetics are how these techniques and useful for biodiversity management. [16]
7. What are the various major National and International conventions on biodiversity and their outcome. [16]
8. What is a patent and need for patenting? Explain the methods of application of patents. [16]

Code No: RR422306

Set No.4

IV B.Tech. II Semester Regular Examinations, April/May -2006
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Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Define biodiversity? Discuss in detail the causes for loss of biodiversity and how to maintain biodiversity. [16]
2. Describe the structure and functions of ecosystem and explain the relationship between ecosystem function and biodiversity. [16]
3. What are the protected areas? Discuss the National parks and biosphere reserves of India. [16]
4. (a) Discuss Finger printing. [8]
(b) Write about Approaches for biodiversity assessment and inventory. [8]
5. Write short notes on the following:
(a) GATT
(b) Species richness
(c) Ecological Niche
(d) Trade secrets. [4x4=16]
6. What is genetic diversity? Discuss the intra specific genetic diversity. [16]
7. What are the various major National and International conventions on biodiversity and their outcome. [16]
8. Discuss the Intellectual Property Rights and how to protect them. [16]
