

Code No: 07A72303

R07

Set No. 2

IV B.Tech I Semester Examinations, MAY 2011
BIO ETHICS, BIO SAFETY AND INTELLECTUAL PROPERTY
RIGHTS
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the Good Manufacturing Practice Federal regulations. [16]
2. Benefits and risks of genetically modified crops gather important insights on re- search into the benefits and risks of genetically modified crops for man and his environment [16]
3. Explain the following
 - (a) What animals are used in research?
 - (b) Areas of research and testing in which laboratory animals are used
 - (c) Are there alternatives to research involving animals? [8+4+4]
4. Give an account on chronological development of WTO. [16]
5. (a) Explain two kinds of rights with which a trade mark is associated.
(b) State 5 examples of geographical indications in India. [8+8]
6. Explain the significance of the Cartagena protocol and other international agree- ments in sustaining Biodiversity and Biosafety. [16]
7. (a) What is meant by industrial application in the context of patenting and in- vention?
(b) What are the grounds for pre-grant and post-grant opposition of patent in India? [8+8]
8. Explain biotechnology regulation and biosafety with reference to convention on biological diversity . [16]

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Max Marks: 80

Answer any FIVE Questions
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1. Write a short note on the following
 - (a) APOMIXIS
 - (b) Feeding the world in the twenty first century
 - (c) India Seeks tighter controls on Germplasm
 - (d) Rice as a model for cereal genomics [4+4+4+4]
2. Salient features of TRIPS [16]
3. Discuss the Swaminathan task force recommendations to examine the potential and problems of Biotechnology applications. [16]
4. Explain the GMP concepts used in the development of Active Pharmaceutical Ingredients in clinical trails. [16]
5. (a) India is signatory to WPPT-Discuss.
(b) Trace the evolution of copyright to its modern age. [8+8]
6. (a) Write the significance of Budapest treaty.
(b) Explain nice agreement concerning the international classification of goods [8+8]
7. Explain the Biosafety risks associated with Transgenic Banana and Maize. [16]
8. Write short notes on the following
 - (a) Cost associated with the acquisition and maintenance of IPR's
 - (b) Can an IP office functions autonomously, independent of the financial support of the government. [8+8]

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Set No. 1

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1. Explain the existing processes and procedures for Biosafety approvals. [16]
2. Write short notes on
 - (a) FAO
 - (b) WIPO [8+8]
3. Explain the principles of ICH-GCP. [16]
4. Explain the provisions of the Paris convention concerning 'well known trademarks'. [16]
5. Write short notes on the following
 - (a) GMO's and WTO
 - (b) GMO's AND EU [8+8]
6. Explain the following
 - (a) The process of patent application from the date of filing to the grant
 - (b) Sealing of the patent [8+8]
7. Write a short note on the following
 - (a) How to ensure safe use of Biotechnology
 - (b) Significance of national biosafety boards in ensuring biosafety regulations and guidelines. [8+8]
8. Discuss the essential categories and schemes, by which the non-human world is valued. [16]

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Set No. 3

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Max Marks: 80

Answer any FIVE Questions
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1. Write short notes on benefits of protecting
 - (a) TKDL
 - (b) TCE's[8+8]
2. Explain the affect of Good Clinical Practices on institutions conducting clinical research with an example. [16]
3. Explain the ethical issues related to the Human genome project. [16]
4. Explain, Lisbon agreement of protection of appellation of origin. [16]
5. Explain the following
 - (a) Engineering the pro-vitamin biosynthetic pathway into rice endosperm.
 - (b) Edible vaccines.[8+8]
6. Explain the WTO dispute settlement system. [16]
7. Explain the ethical considerations at various steps in development, production and consumption of genetically modified crops. [16]
8. (a) Protection and Regulation of Intellectual Property in Agriculture and Food-explain
(b) Give an account on "The Uruguay Round of Multinational Trade Negotiations" [8+8]
