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Total No. of Pages : 02

Total No. of Questions : 08

**M.Tech.(Bio. Tech.) (Sem.-2)**  
**INTELLECTUAL PROPERTY RIGHTS, BIOETHICS**  
**AND BIOSAFETY**

Subject Code : MTBT-112

M.Code : 23011

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. a. Give a brief account of evolution of patent laws in India.  
b. Discuss the various creations of humans that can be protected under copyrights and the terms under which they are protected.
2. a. What do you understand by Rights of Traditional knowledge? How is traditional knowledge protected?  
b. Discuss the main features of TRIPs agreement.
3. a. What are the basic requirements of patentability? Under Indian Patent laws what are patentable subject matter and what are non- patentable subject matter.  
b. Discuss the copyright protection. What are related rights?
4. a. Give the difference between :
  - i. Discovery vs. Invention
  - ii. Product patent vs. Process patent  
b. What is revocation of patent? Explain with the examples of Turmeric and Neem controversy.

5.
  - a. Describe the procedure of filing patent under Indian patent law.
  - b. What is Geographical indication? How things under this IPR protected and what are its advantages? Give examples.
6.
  - a. Discuss the basic requirements of biosafety in relation to human health.
  - b. Discuss the various biosafety guidelines related to transgenic research in India.
7.
  - a. Discuss the various biosafety levels to be followed while working in the microbial and biomedical laboratories.
  - b. Mention the various guidelines related to research in involving DNA molecules.
8.
  - a. Discuss the legal and socioeconomic impact of biotechnology products and techniques.
  - b. Define Bioethics. Discuss the ethical issues and ethical conflicts in health care.

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**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**