

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- VII<sup>th</sup> SEMESTER-EXAMINATION – MAY/JUNE- 2012****Subject code: 170305****Date: 29/05/2012****Subject Name: Intellectual Property Rights & Bioethics****Time: 02:30 pm – 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) What is intellectual property right (IPR)? Explain significance and importance of IPR. **07**  
(b) List the various forms of IPR with example of each. **07**
- Q.2** (a) Write a short note on: Trade-related aspects of intellectual property rights agreements (TRIPS). **07**  
(b) Write a short note on: Non patentable subject matter under Indian patent rules. **07**
- OR**
- (b) Give the duration for validation of various IPR according to Indian rules. **07**
- Q.3** (a) What are the classes of works for which copyright protection is available in India? Who is the first owner of copyright in different classes of work? **07**  
(b) Differentiate geographical indication and trade mark. **07**
- OR**
- Q.3** (a) Explain need of patent search. What are the different types of patent search? **07**  
(b) Explain the advantages and disadvantages of using WIPO and IPO databases for patent search. **07**
- Q.4** (a) Explain the criteria for patentability. **07**  
(b) Explain the patent application process in India. **07**
- OR**
- Q.4** (a) What is bioethics? Explain professional ethics in biomedical engineering. **07**  
(b) Discuss the tools for design and decision in professional ethics. **07**
- Q.5** (a) Explain various forms of euthanasia. **07**  
(b) Explain the reasons for clinical trial and related dilemmas. **07**
- OR**
- Q.5** (a) What are the ethical issues related to use for drugs and medical devices in treatment? **07**  
(b) Discuss the ethical issues related to use for drugs and medical devices in case of emergency? **07**

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