Seat No.: _____ *Enrolment No._____*

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- VIIth 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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