

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014****Subject Code: 160406****Date: 30-05-2014****Subject Name: Bioethics, Patents and IPR****Time: 10:30 am - 01:00 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) State significance of patent and steps to file it. **07**
(b) Highlight on the Human Genome project and its ethical implications. **07**
- Q.2** (a) Justify: “Modern biotechnology has been hailed as a miracle to solve problems”. **07**
(b) Elaborate on TRIPS. **07**
- OR**
- (b) Justify: “Intellectual property rights are strategic”. **07**
- Q.3** (a) Genetic testing and counseling results in different socio-economic issues. Explain such issues. **07**
(b) Define Xeno-transplantation. Explain various ethical issues related to it. **07**
- OR**
- Q.3** (a) Explain Euthanasia and state your logical conclusions for its societal acceptance. **07**
(b) State the Application of the Principle of Beneficence. **07**
- Q.4** (a) What are the legal implications provided that considers the needs of poor. **07**
(b) Explain trade secrets citing suitable examples. **07**
- OR**
- Q.4** (a) Justify: “Research and development must focus to address the needs of poor”. **07**
(b) Elaborate on plant breeders’ and farmers’ protection rights. **07**
- Q.5** (a) Explain in brief: **07**
1. Principlism
2. Bioethics
(b) Discuss the essential bioethical considerations for the use of genetically modified foods and crops. **07**
- OR**
- Q.5** (a) Justify whether you hold a normative or radical point of view for organ donations. **07**
(b) State the inevitability of Biosafety in biotechnology emphasizing on its legal and socio-economic impacts. **07**
