

**M.Tech.****(SEM III) ODD SEMESTER EXAMINATION 2015-16  
IPR, BIOETHICS AND BIOSAFETY****[Time: 3 hrs.]****[Max. Marks: 100]****Note: Attempt all questions. All questions carry equal marks.****Q1. Attempt ANY TWO of the following.****[2X10]**

- (a) Define invention. How is invention explained in the patent specification during filing of the patent?
- (b) What are the major differences between the Indian and US patent laws?
- (c) Define Intellectual Property Rights. Briefly discuss the various types of Intellectual Property Rights.

**Q2. Attempt ANY TWO of the following.****[2X10]**

- (a) Who is a patent agent? What is the role and eligibility of a patent agent?
- (b) What is the difference between a licence and an assignment? Describe the different types of licences.
- (c) What is biosafety? Discuss the four levels of biosafety.

**Q3. Attempt ANY TWO of the following.****[2X10]**

- (a) Define the biological weapons with examples and discuss their social & ethical implications.
- (b) Define Bioethics and discuss the major issues related to Bioethics?
- (c) Discuss the neem and turmeric patent cases.

**Q4. Attempt ANY TWO of the following.****[2X10]**

- (a) Describe the non-patentable inventions in India.
- (b) What is risk assessment? Describe the process of risk assessment.
- (c) Explain the scope of patent in biotechnology industry.

**Q5. Write short note on any FOUR.****[4X5]**

- (a) Geographical indications                      (b) Utility patent
- (c) TRIPS agreement                                (d) Golden rice case
- (e) Infringement of copyright                    (f) Recombinant insulin