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# B.Tech.(BT) (2011 Onwards) (Sem.-4) INTELLECTUAL PROPRIETARY RIGHTS BIOETHICS AND BIOSAFETY Subject Code : BTBT-405 Paper ID : [A1170]

## Time: 3 Hrs.

Max. Marks: 60

### **INSTRUCTION TO CANDIDATES :**

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students 2. have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

### **SECTION-A**

#### 1. Answer briefly :

- a) What do you understand by intellectual property? Saure ...
- b) What is novelty?
- c) What is an invention?
- d) What do you understand by GMO's and LMO's?
- e) Define bioethics.
- f) What is GLP and its importance?
- g) What is the term of a patent?
- h) What are various hazardous biological agents?
- i) What are the rights of a patentee?
- j) What is Cartagena protocol on biosafety?

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#### **SECTION-B**

- 2. Define patent and what are its prime features. How patentability is ascertained?
- 3. What is the role of bioethics in biology and medical field? What are unethical activities in biological work? Explain.
- 4. What are different biosafety levels? What criteria are used for assigning the levels of biosafety?
- 5. What is Patent Cooperation Treaty and what are its advantages?
- 6. What do you mean by provisional and complete specification that is required for filing a patent?

### **SECTION-C**

- 7. Name different points that made the origin of biosafety. Why biosafety is essential in the biotechnological development?
- 8. What is biowar and bioterrorism? Explain their social and ethical implications.
- 9. Discuss the case of patent granted on turmeric or basmati by USA. Why it was revoked and under what circumstances?