



# CBCS SCHEME

18BT741

## Seventh Semester B.E. Degree Examination, June/July 2024 Bioethics, Biosafety and IPR

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

### Module-1

- 1 a. How opening of trade barriers due to globalization affected the development of biotech products in developing nations? (10 Marks)  
b. Why acceptance issues of product developed through modern biotechnological tools are crucial to be discussed before starting research? (10 Marks)

OR

- 2 a. Why science and technology is studied in the context of society and environment? (10 Marks)  
b. By citing one case study from developing nation discuss the issue arise out of ownership of traditional crop variety. (10 Marks)

### Module-2

- 3 a. Explain the principles of bioethics using inductive and deductive theory. (10 Marks)  
b. Differentiate between legality, morality and ethics. (10 Marks)

OR

- 4 a. How bioethics is different from business ethics? (10 Marks)  
b. Discuss the conflict between IPR and human rights. (10 Marks)

### Module-3

- 5 a. Explain the scope and components of Cartagena protocol. (10 Marks)  
b. Explain the factor "fear of unknown" while generating new form of life. (10 Marks)

OR

- 6 a. Give an account of biosafety concerns in biotech industry. (10 Marks)  
b. How to safe guard the germplasm and environment from genetically modified organisms. (10 Marks)

### Module-4

- 7 a. Explain the social and ethical implications of biological weapons. (10 Marks)  
b. Explain the protocols of laboratory experiments using recombinant DNA technology. (10 Marks)

OR

- 8 a. Discuss the various components of GMP. (10 Marks)  
b. What are the principles of GLP? (10 Marks)

### Module-5

- 9 a. Write salient features of TRIP. (10 Marks)  
b. How patents are applied in India. (10 Marks)

OR

- 10 a. What are the general requirement of patent law in India? (10 Marks)  
b. How patenting of live organism is done in India? (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.