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10BT82

**Eighth Semester B.E. Degree Examination, Aug./Sept.2020**  
**Bioethics and Biosafety**

Time: 3 hrs.

Max. Marks:100

**Note:** Answer any FIVE full questions, selecting atleast TWO questions from each part.

**PART – A**

- 1 a. Discuss the challenges faced by Indian Biotechnological Research and Industries. (10 Marks)  
b. Explain how biotechnology helps problem of hunger and malnutrition with any one case study. (10 Marks)
- 2 a. Write a detailed account on role of bioethics in generating new forms of life with any one case study. (10 Marks)  
b. Discuss in detail the legal, institutional and socioeconomic impacts of biotechnology. (10 Marks)
- 3 a. Define Bioethics. Explain principles of bioethics. (10 Marks)  
b. Write short notes on:  
(i) Bioethics vs. Business ethics  
(ii) Ethical dimensions of IPR (10 Marks)
- 4 a. Explain in detail any two ethical conflicts in biotechnology. (10 Marks)  
b. Discuss the key Cartagena Protocol issues on biosafety. (10 Marks)

**PART – B**

- 5 a. Write an account on role of Indian Regulatory Mechanism for GM crops. (10 Marks)  
b. Write short notes on :  
(i) Laboratory Associated Biohazards (04 Marks)  
(ii) Biosafety levels and risk groups (06 Marks)
- 6 a. Write short notes on :  
(i) Biological Weapons Convention (10 Marks)  
(ii) Good Laboratory Practices (10 Marks)  
b. Write an account on Guidelines for research in Transgenic Plants. (10 Marks)
- 7 a. Write a short note on :  
(i) Flavor – Sarr tomatoes (10 Marks)  
(ii) Environmental aspects of biotech applications. (10 Marks)  
b. Discuss the use of genetically modified organisms and their release in environment. (10 Marks)
- 8 a. Write short notes on :  
(i) Pant breaker's right (10 Marks)  
(ii) Biosafety issued in clinical tribally (10 Marks)  
b. Write a detailed account on Biosafety Assessment of Pharmaceutical Products. (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.