



CBCS SCHEME

18BBT/BBC31

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Third Semester M.Tech. Degree Examination, Dec.2019/Jan.2020 Biosafety and Bioethics

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the role of science and technology for development of society. (10 Marks)
b. Describe in detail the benefit sharing policy. (10 Marks)

OR

- 2 a. What are the different public acceptances regarding biotechnology products? (10 Marks)
b. "Biotechnology could able to reduce the hunger" – Justify. (10 Marks)

Module-2

- 3 a. Explain in detail the legal and socioeconomic impact of biotechnology. (10 Marks)
b. Describe the role of public education regarding new forms of life. (10 Marks)

OR

- 4 a. Write a short note on morality and ethics. (10 Marks)
b. Differentiate between bioethics and business ethics. (10 Marks)

Module-3

- 5 a. Discuss the ethical conflicts of biotechnology in detail. (10 Marks)
b. Enumerate different biosafety levels with respects to biotechnology. (10 Marks)

OR

- 6 a. Explain the salient features of Cartagena protocol on biosafety. (10 Marks)
b. Discuss different containment levels with examples. (10 Marks)

Module-4

- 7 a. What is bioterrorism? Explain convention on biological weapons. (10 Marks)
b. Discuss the biosafety regulations with regard the rDNA technology. (10 Marks)

OR

- 8 a. Write the guidelines for research in transgenic plants in India. (10 Marks)
b. Write short notes on: (i) GMP (ii) GLP (10 Marks)

Module-5

- 9 a. With a case study discuss the significance of GM food. (10 Marks)
b. Define bioremediation. Discuss the methods of bioremediation. (10 Marks)

OR

- 10 a. Explain in detail the plant breeder's rights. (10 Marks)
b. Describe in detail the issues of biosafety in clinical trails. (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.