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DD-334

M. Sc. EXAMINATION, May 2018

(Fourth Semester)

(Main & Re-appear)

BIOTECHNOLOGY

BT608MS

Bioethics, Biosafety and IPR

Time: 3 Hours [Maximum Marks: 100

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note: Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

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P.T.O.

Unit I

- What are biotechnology and biomedical research parameters that are covered underbioethical issues. Cite specific examples to support your answer.
- Discuss with examples the modification of plant, animal and micro-organisms with improved parameters be produced through biotechnology.

Unit II

- What are transgenic crops? Discuss their development and environmental impacts in detail.
- 4. What are Bioremediation ? Discuss their environmental impact and degradation methods of pesticides, herbicide and man-made chemicals from the environemnt.20

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Unit III

- 5. Discuss in detail about the legal implications of patents and trademarks. Cite case studies to support your anser.20
- 6. What do you understand by plant variety development by plant breeder and farmers?Describe with their ethical rights on new variety and limitations, if any.

Unit IV

- Discuss in detail the roles, development and limitations of institutional biosafety committee for new product or process development. 20
- **8.** Describe the following:
 - (a) Containment wrt infectious agents
 - (b) Cartagena protocol of biosafety issues
 - (c) Issues related to trade-between twocountries. 5+10+5=20

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