

GIET UNIVERSITY, GUNUPUR – 765022

2018					RD	19MTECH042
Registration No:						

Total Number of Pages: 01

M.TECH

AR-19

M.TECH 1ST SEMESTER EXAMINATIONS NOV/DEC 2019 BIOTECHNOLOGY, MPCBT1030 IPR AND COMMERCIALIZATION OF BIOTECHNOLOGY

Time: 3 Hours

Max Marks: 70

The figures in the right hand margin indicate marks.

PART-A

(10 X 2=20 MARKS)

- 1. Answer the following questions.
- a) Comment the role of science & technology on society?
- b) What are the challenges of biotechnology research?
- c) What is Biosecurity?
- d) What is IPR? Name the IPRs?
- e) State the patentability requirements?
- f) What is Cartagena Protocol?
- g) What do you mean by HACCP?
- h) What is bioterrorism?
- i) Define ELSI?
- j) What is biological weapon?

PART-B

(5 X 10=50 MARKS)

Answer any five questions from the following.

- 2. Describe the principles of Bioethics and their importance in biotechnological research?
- 3. What are genetically modified crops? What scientific and ethical issues are associated with GM crops? How can such issues be resolved?
- 4. What are biological weapons? Write in detail about their social and ethical implications?
- 5. Write short notes on
- a) Good Laboratory Practices (GLP).
- b) Role of patents in biotechnological development?
- 6. Why biosafety is an important issue in transgenic research? Explain various biosafety guidelines at national level for research involving DNA molecules
- 7. Write short notes on
- a) Biosafety assessment committee in India?
- b) Principle of Respect for Autonomy
- 8. What are the safety points need to be consider in biotechnology point of view related to environmental release of GMOS