

H126

B. Tech. EXAMINATION, 2020

(Eighth Semester)

(B. Scheme) (Main & Re-appear)

BIOETHICS AND INTELLECTUAL PROPERTY RIGHTS

BT458B

(BT)

Time : 3 Hours]

[Maximum Marks : 75

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.

Unit I

1. Discuss the major developments and new technology for the recombinant animals or live forms. Give specific examples. **15**
2. Discuss the issues that emerge due to biomedical research. What are different law that governs the outcome of development and commercialization of the research ? **15**

Unit II

3. Describe the following :
 - (a) *r*DNA-technology limitations
 - (b) Degradation of environmental pollutants

- (c) B+cotton : its environmental impacts
 - (d) Phytoremediation vs. Microbial remediation
 - (e) Bacillus thuringion's as GMO. **3×5=15**
4. What is Bioremediation ? Explain in detail the relevance of microbial biotechnology for the environmental clean up through *in-situ* and *ex-situ* mode. **15**

Unit III

5. Describe in detail about the guidelines that deals with the experimental protocol approval and use in biotechnology research. **15**
6. What is GMP ? Discuss their scope and importance w.r.t. *r*-DNA based product or process. Give specific examples to support the answer. **15**

Unit IV

7. What is Patent ? Discuss in detail about the implications of patenting in biotechnology. Give suitable examples. **15**
8. Discuss the following : **5×3=15**
- (a) GATT and TRIPS
 - (b) Farmers vs. Breeder's rights
 - (c) IPR and IPP.