

Roll No.

Total Pages : 3

LMDQ/M-24

11407

BIOSAFETY, BIOETHICS AND IPR ISSUES

Paper : BT 405

Time : Three Hours]

[Maximum Marks : 80

Note : Question No. 1 is compulsory and consists of eight short answer types of 2 marks each. Attempt *five* questions in all by selecting *one* question from each of the four Units I to IV and Question No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. Write short notes on all of the following. Illustrate your answers with suitable examples/drawings wherever necessary:
 - (a) RCGM & GEAC.
 - (b) Social implications of biological weapons.
 - (c) GATT
 - (d) TRIPS
 - (e) Human cloning ethical and social issues.
 - (f) Importance of Good Management Practices (GMP).
 - (g) Farmer's Rights.
 - (h) Biotechnological industries in India. (2×8=16)

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UNIT-I

2. Discuss briefly the following :
- (a) Biosafety in a Laboratory.
 - (b) Recommended biosafety levels for infected animals. (8×2=16)
3. Discuss briefly the following with suitable examples wherever required :
- (a) Bioterrorism and conventions on biological weapons.
 - (b) Role of Institutional Biosafety Committee. (8×2=16)

UNIT-II

4. Discuss briefly the following with suitable examples :
- (a) Ethical issues of Patenting and its effect on biodiversity rich developing countries.
 - (b) Ethical issues related to biotechnology research. (8×2=16)
5. Discuss briefly the following with suitable examples :
- (a) Ethical issues associated with genetically modified foods and derived products.
 - (b) Environmental impacts for using GMO's. (8×2=16)

UNIT-III

6. Discuss briefly the following with suitable examples :
- (a) Social, economic and legal issue related to biotechnology.
 - (b) Testing of drugs on human volunteers. (8×2=16)

7. Discuss briefly the following with suitable examples :
- (a) Entrepreneurship and principles of entrepreneurial development.
 - (b) Potential job opportunities of biotechnology in India.
- (8×2=16)

UNIT-IV

8. Discuss briefly the following with suitable examples :
- (a) Intellectual Property Rights and IPR protection.
 - (b) Procedure for filing Patent application and grant of a Patent in India.
- (8×2=16)
9. Discuss briefly the following by giving suitable examples :
- (a) Legislations covering IPR in India.
 - (b) Traditional knowledge and commercial exploitation.
- (8×2=16)
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