



QP CODE: 25047378



Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc PLANT BIOTECHNOLOGY

Core Course - BS010302 - IPR AND TRANSLATIONAL RESEARCH

2019 ADMISSION ONWARDS

DB7BF127

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Explain the need for protecting plant genetic resources.
2. What is the rationale of technology transfer?
3. What are the qualities of a patentable invention?
4. What are the prerequisites for patenting genes and DNA sequences?
5. What are the major ethical issues in conducting research?
6. What is meant by regulatory misconduct?
7. What is the importance of biosafety?
8. What is RCGM?
9. Brief on any one case study underlining the significance of plant translational research.
10. Give a brief outline regarding the process of herbal drug development.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Discuss the benefits of intellectual property system.
12. Explain the categories of industrial property.
13. Write a short essay on plant patents under U.S. Patent Law.
14. Analyse the interrelation between Farmers' Rights and Breeders' Rights.
15. Write an essay on impact of globalisation on biotechnological innovations.





16. Explain the principles of bioethics.
17. Write a short essay on the assessment of food and environmental safety of Genetically Engineered Food Crops.
18. Write about various government schemes promoting entrepreneurship in India.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Describe the global and Indian patenting scenario of higher plants and transgenic organisms.
20. Write an essay on the perception about biotechnological innovation by different stakeholders of the society.
21. Explain (a) Significance of Cartagena protocol (b) Effects of bioterrorism.
22. Elaborate on the need, process and prospects of product development.

(2×5=10 weightage)

