



QP CODE: 25022399



Reg No : .....

Name : .....

**M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025**

**Third Semester**

M.Sc MICROBIOLOGY

**ELECTIVE - MG870302 - MICROBIAL QUALITY ASSUARANCE, BIOSAFETY AND  
INTELLECTUAL PROPERTY RIGHTS**

2019 ADMISSION ONWARDS

824366B0

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is voluntary Euthanasia?
2. How is DNA cloning done?
3. What is 3Rs in animal research?
4. Write on the functions of District Level Committee.
5. Explain the guidelines of FAO.
6. What is HACCP?
7. What all are the rights comprised in copyright?
8. Write a note on GATT .
9. List out the steps involved in patenting microorganisms.
10. Summarize the possible consequences of Patent infringement .

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight **2** each.*

11. Briefly explain the three basic principles of Belmont.
12. Explain different types containment for handling GMOs.
13. Describe the principles of National Environmental Policy.
14. Write in brief the mechanisms involved in the deterioration of processed foods affecting shelf life of food.
15. Explain the functions of FSSAI.





16. What is the purpose of food labelling?
17. Define Patentability. Explain its significance.
18. What is the importance of geographical indication ? How are they protected?

(6×2=12 weightage)

**Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Write on Cloning Prohibition Bill 1997 and ethical issues related to cloning.
20. Explain in detail Advanced Information Agreement (AIA) procedure.
21. Elaborate on foodborne illness and the reasons for increased incidents of foodborne illness.
22. Explain Patent Cooperation Treaty and elaborate its role in filing a patent.

(2×5=10 weightage)

