QP CODE: 25024341

25024341

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, APRIL 2025

Fourth Semester

M Sc APPLIED MICROBIOLOGY

ELECTIVE - MG800401 - PHARMACEUTICAL MICROBIOLOGY

2019 ADMISSION ONWARDS

0F78E31E

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Write a note on Synthetic antimicrobial agents.
2. Comment on quinolone antibiotics.
3. Comment on Intravenous additives.
4. List the advantages and disadvantages of Nucleic-acid based immunization.
5. Differentiate between IP and BP.
6. Give a brief account on structure evaluation in rational drug design.
7. Write a short note on quality assurance in pharma industry
8. What you meant by active pharmaceutical ingredient?
9. Write a note on Chemical indicators used in Pharmaceutical industries.
10. What is ED50?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Write a short essay on quinolones.
12. Differentiate between Disinfectants and Disinfection.
13. Briefly explain the production of Streptodornase by microbial fermentation. Add a note on its applications.

14. Comment on test for Pyrogens.

15. Write a short essay on hydrogels drug carrier system.

16. What is CDTL? Write a note on its functions.

17. Biefly explain the Disinfection policies and classification of equipments on risk basis.

18. Describe the different Biosafety levels in microbiology laboratory.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay on the targets of different antibiotics along with their mechanism of action.

20. Give an account on rational drug design.

21. Describe in detail the various Quality management systems in pharmaceutical industry.

22. Describe the various Microbial Limit Tests for non-sterile pharmaceutical products.

(2×5=10 weightage)