QP CODE: 24026955

24026955

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Microbiology Model III

Core Course - MB3CRT06 - BIOINSTRUMENTATION AND TECHNIQUES

2017 Admission Onwards

39FE080C

Time: 3 Hours Max. Marks : 80

core

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. What is eye piece lense?
2. Define dark microscope.
3. List the parts of a compound microscope.
4. Define the unit of centrifugation.
5. How can we determine the molecular weight of a protein using centrifugation?
6. What is free electrophoresis?
7. Define turbidity.
8. Define spectrophotometry.
9. Write down application of visible Spectrophotometry.
10. What is Lysozyme?
11. Define Polymorphic DNA.
12. What are Junk DNA?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write on parts of a fluorescent Microscope.
14. Descibe the principle of SEM.
15. Differentiate TEM and SEM.
16. Explain chromatic abberation.
17. Define Microfuge.
18. Explain AGE.
19. Write about Optical arrangement of Colorimeter.
20. State Beer Lambert's law and its application.
21. Explain the principle of RFLP.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Describe basic principle of Microscopy and its types.
23. Write an essay on the TEM.
24. Explain the principle behind protein gel electrophoresis . Differentiate between native and SDS- PAGE electrophoresis.
25. Discuss detail, Application and principle of RAPd.

(2×15=30)