

Subject Title: Microbiology and r-DNA Technology

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Year: III

Semester: VI Semester

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Unit - I: Microbiology**Essay Questions :**

1. Write about the industrial uses of *Aspergillus niger* and *Spirulina*?
2. Write about the industrial uses of *Aspergillus niger* and Yeast?
3. Explain in detail about the structure and composition of viruses?
4. Write about the lytic cycle and Lysogenic cycle of Lambda phage?
5. Write about the Bacterial growth curve?

Short Answer:

6. Sporulation
7. Types of Media
8. Motility of Bacteria
9. Gram Staining
10. Synchronous Growth
11. Differences between the Eukaryotes and Prokaryotes
12. TMV
13. HIV

Unit - II: r-DNA technology I**Essay Questions :**

14. Write in detail about the Cloning Strategies?
15. Define cloning vectors? Explain about the plasmid vectors with neat diagram
16. Write about the various tools used in r-DNA technology?
17. Define Molecular marker? Write in detail about the RFLP?
18. Explain DNA sequencing by using Maxam Gilbert and Sanger's Method?

Short Answers

19. Restriction Mapping
20. Host
21. Restriction endonucleases
22. AFLP
23. RAPD

Unit - III: r-DNA technology II**Essay Questions**

24. Write about the construction of c-DNA libraries & its limitations?
25. Explain the principle and applications of PCR?
26. Write in detail about the southern blotting technique & its applications?
27. Write about the production of insulin and Human growth hormone?
28. Explain the importance of edible vaccines?

Short Questions

29. Bt cotton
30. Edible vaccines
31. Western blotting
32. Northern blotting

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