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Subject Title: Applied Biochemistry Prepared by: M Madhavi

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Unit - I: Enzyme and Protein purification methods

Essay Answer Type

- 1. What is Homogenization and explain homogenization techniques.
- 2. Discuss briefly about centrifugation methods.
- 3. Explain the process of protein purification by ammonium sulphate precipitation.
- 4. Describe briefly about column chromatography and determination of molecular weight.
- 5. How to determine protein concentration by using UV spectra.
- 6. Write the principle and procedure of SDS-PAGE.
- 7. Explain about Native PAGE.

Short Answer Type

- 8. Definition of Homogenization and write Applications of Homogenization.
- 9. Differential centrifugation.
- 10. Dialysis of proteins.
- 11. Applications of column chromatography
- 12. Principle involved in SDS-PAGE
- 13. What is the difference between SDS-PAGE and Native PAGE.

Unit - II: Nucleic acid analysis and Cell cultures

Essay Answer Type

- 14. Write the principle and process of agarose gel electrophoresis.
- 15. Write briefly about PCR and its applications.
- 16. Explain about different types of blotting techniques.
- 17. Discuss briefly about plant cell cultures.
- 18. Discuss briefly about animal cell cultures.
- 19. Write about Amylase producing microbial cultures.
- 20. Explain cellulase production process by using microbial cultures.



21. Explain the process of protease production by using microbial cultures.

Short Answer Type

- 22. Principle involved in agarose gel electrophoresis.
- 23. Applications of PCR
- 24. Western blotting
- 25. Southern blotting
- 26. Plant cell cultures
- 27. Northern blotting
- 28. Animal cell cultures
- 29. How amylase produced by microbial cultures?
- 30. Applications of amylase

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