c) What is the role of Vaccines?

c) Briefly explain the procedure.

5. a) What is agarose gel electrophoresis?

b) Explain the advantages of agarose gel electrophoresis.

(1+2+3)

(1+2+3)



SECTION - C

Answer any six.

- 6. What are Monosaccharides? Briefly describe their classes.
- 7. What is hybridoma technology?
- 8. Describe the activation of B and T cells.
- 9. Describe the structure of immunoglobulins with a diagram.
- 10. Explain the role of buffers in biological systems.
- 11. What is ultra centrifugation? Give its principle.
- 12. What is Lyophilisation? Give its applications.
- 13. Differentiate colorimetry and spectrophotometry.

 $(6 \times 3 = 18)$

SECTION - D

Answer any seven.

- 14. Radioactive isotopes.
- 15. Atomic absorption spectroscopy.
- 16. Tracer techniques.
- 17. What is Cerenkov Radiation?
- 18. Safety guidelines for Radioactivity experiments.
- 19. Unsaturated fatty acids.
- 20. Biosynthesis of Purines.

21. Ramachandran Plot.

22. Peptidoglycan.

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23. Lectins and their importance.

 $(7 \times 2 = 14)$