b) Write their properties. c) Write three applications radioactive isotopes in biology. (1+2+3)5. a) What are terpenes? b) Write their role.

c) Explain their significance.

(1+2+3)



## SECTION - C

Answer any six. (6×3=18)

- 6. Describe gluconeogenesis.
- 7. Define secondary metabolites. Write their significance.
- 8. How compounds separated in the paper chromatogram are detected?
- 9. Describe the mechanism of immune response.
- 10. What is ELISA? Write its applications.
- 11. Explain Beer-Lambert's equation. Write its applications.
- 12. Write the principle and applications of ultracentrifuge.
- 13. Explain the action of allosteric enzyme.

SECTION - D

Answer any seven.

 $(7 \times 2 = 14)$ 

- 14. Define buffer.
- 15. What are lectins?
- 16. What is Ramachandran plot?
- 17. What is Bragg's equation?
- 18. What is Lyophilization? Write one application.
- 19. What are saturated fatty acids?
- 20. What is autoimmunity?
- 21. What is reductive amination?
- 22. What is the full form of MRI? Write one application.
- 23. What is abzyme?