14. a) Explain induced fit model with suitable diagram.
    b) What is meant by allosteric inhibition ? (4+2)

15. a) Write a note on isolation and sequencing of Nucleic acids.
    b) Mention the types of DNA polymerase. (4+2)

16. a) Distinguish between competitive and uncompetitive inhibition.
    b) What is meant by photoactivation ? (4+2)

17. a) Discuss about the Meselson and Stahl experiment.
    b) Mention any two differences between DNA and RNA. (4+2)

18. a) Discuss in detail about steps involved in prokaryotic transcription.
    b) Write a note on TATA box. (4+2)

19. a) Discuss in detail about Lac operon concept.
    b) Why DNA is more stable in alkali than RNA ? (4+2)

20. a) Derive L-B equation and plot the graph.
    b) Write a note on Rho independent termination of transcription. (4+2)

21. a) Deduce the steps involved in Prokaryotic translation.
    b) What is meant by Wobble's hypothesis ? (4+2)

22. a) Write the structure of ATP and GMP.
    b) What are nucleosomes ? (4+2)

23. a) Explain how UV radiation causes mutation.
    b) List out the characteristic features of genetic code. (4+2)

24. a) Explain about the trp operon concept.
    b) Mention the types of mutation. (4+2)

25. a) Discuss about the post-transcriptional modification.
    b) Write a note on Griffith experiment. (4+2)
