- 23. What are the roles of hydrogen, ionic and disulphide bonds in the structure of proteins?
- 24. What is the significance is the primary, secondary, tertiary and quaternary structure of a protein?
- 25. What are the properties of fibrous proteins?
- 26. What are the properties of globular proteins?
- 27. How are the structures of collagen and haemoglobin related to their function?
- 28. What is the structure of DNA
- 29. What is the difference between pyrimidines and purines?
- 30. How is DNA replicated?
- 31. How was the theory of DNA replication brought about?
- 32. Draw the model of semi-conservative replication including the results on the test tube?
- 33. What does this model assume?
- 34. What is the role of DNA helicase, DNA polymerase and DNA ligase?

  35. What is a gene?

  36. What is the structure and role of TRNA?

  37. What is the structure and role of TRNA?

- 38. What is the nature of the genetic code?
- 39. What are the stages of protein synthesis?
- 40. What is a gene mutation?
- 41. What is a point mutation?
- 42. What do point mutations include?
- 43. What is sickle cell anaemia and how does is affect the proteins in the body?
- 44. What are enzymes?
- 45. What is the lock and key hypothesis?
- 46. What is the induced fit hypothesis?
- 47. What do enzymes do to reactions?