

QUESTIONS TO PRACTISE

1. Explain different types of covalent and noncovalent bonds that exist in proteins.
2. A polypeptide has the following amino acid sequence. When it is treated with chymotrypsin, how many peptide fragments will be formed? What will be their amino acid sequence?
Val–Phe– Asp– Lys– Gly–Phe– Val–Glu–Arg
3. How can you determine the primary structure of a protein?
4. Describe the steps in purification of proteins.
5. What should be the strategy to sequence amino acids in a polypeptide? Why Edman degradation is preferred over Sanger's method?
6. Explain peptide mass fingerprinting.
7. Give brief account of the following:
 - (a) Mass spectrometry and its purpose
 - (b) MALDI–TOF

10. NMR SPECTROSCOPY

11. X-RAY DIFFRACTION

12. CD SPECTROSCOPY

13. FTIR

14. UV-VIS SPECTROSCOPY