



12. (a) Write about the two different strategies for whole genome sequencing. (16)

Or

(b) Explain about the physical mapping techniques and the markers used in this process. (16)

13. (a) Write in detail about the steps involved in the process of constructing and screening of a subtractive cDNA library. (16)

Or

(b) Explain the following :

(i) Tissue Sampling and mRNA isolation (5)

(ii) First and Second strand synthesis (5)

(iii) Linkers design, preparation and ligation. (6)

14. (a) (i) Explain about the equipments, reagents and methods for the analysis of amino acid composition. (8)

(ii) Explain Edman protein micro sequencing. (8)

Or

(b) Explain about the principle involved in the MALDI-TOF. (16)

15. (a) Write in detail any four post translational modifications of protein. (16)

Or

(b) (i) What are phospho proteins? How their presence is analysed? (6)

(ii) Explain about the protein-protein interaction and their significance. (10)