



**Part C**

**3 x 12 = 36**

**Answer the following not exceeding 700 words or four pages**

10. (a) Describe the types of cloning vector and explain the function of vectors. **CO1K2**  
(Or)
10. (b) Write a detailed note on Electroporation Technique **CO1K2**
11. (a) What are the methods by which a blunt end DNA can be converted into sticky end? **CO1K3**  
(Or)
11. (b) How will you prepare and screen the competent cell? Explain **CO2K2**
12. (a) Explain chromosome Walking and Jumping **CO2K2**  
(Or)
12. (b) Give a detailed description of Blotting Technique. **CO3K2**