



- c) Draw a labeled diagram of plasmid depicting its important characteristics. (3)
- Q-5** Write a note on various methods of genetic exchange. (14)
- Q-6** Write a note on Transposable Elements. (14)
- Q-7** **Attempt all questions** (14)
- a) Explain Lytic cycle in Bacteriophage with a labeled diagram. (6)
  - b) How do alkylating agents produce mutation? (3)
  - c) Note on basic features of a plasmid. (5)
- Q-8** **Attempt all questions** (14)
- a) Write a note on Avery-Macleod-Mac Carty Experiment with a labeled diagram (7)
  - b) Note Essential features of being an Ideal Vector for Cloning. (3)
  - c) Draw a labeled diagram showing a Conjugation between  $F^+$  and  $F^-$  Plasmid. (4)

