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| 2 | Write a note on genome organization in Saccharomyces. | 7 |
| Q-5 | Attempt all questions | (14) |
| 1 | Compare a typical insertion sequence with a typical composite transposon in bacteria with the help of a labeled diagram. | 7 |
| 2 | Explain Transformation in detail. | 7 |
| Q-6 | Attempt all questions | (14) |
| 1 | What is Conjugation? Explain conjugation in detail. | 14 |
| Q-7 | Attempt all questions | (14) |
| 1 | Explain the importance of Ti plasmid. | 7 |
| 2 | Describe uses of mutations in detail. | 7 |
| Q-8 | Attempt all questions | (14) |
| 1 | Describe mechanism of generalized transduction. | 7 |
| 2 | Describe hybrid dysgenesis in brief. How P elements lead to hybrid dysgenesis? | 7 |

