

(2)

3. What is somatic embryogenesis? Discuss the principle of somatic embryogenesis.
4. Write an essay on plant tissue culture.
5. Describe the tools and techniques used for the production of recombinant DNA.
6. What are the features of a good vector? Describe the features of plasmid and phage vector of E.Coli.
7. Give an illustrated account of transformation in bacteria.
8. Write notes on the following :
 - (a) Fermentation Technology
 - (b) Genetic improvement of industrial microbes
9. Write notes on the following :
 - (a) Functional genomics
 - (b) Molecular marker
10. Write notes on the following :
 - (a) Scope of Biotechnology
 - (b) Cellular totipotency