

- 3 (a) Explain the role of RENS in biotechnology. $2 \times 7 = 14$
(b) Discuss various techniques of screening of recombinant DNA.

OR

- 3 Write short notes on the following : $2 \times 7 = 14$
(a) Vectors
(b) Gene library
- 4 (a) Discuss the application of plant tissue culture in Biotechnology $2 \times 7 = 14$
(b) What is multiple shoot culture? Discuss its importance in regeneration of plants.
- 5 Write short notes on any two of the following: $2 \times 7 = 14$
(a) Monoclonal antibody
(b) Autoimmunity
(c) Immunoglobulin
(d) Hypersensitivity.
-