Q. 1 Answer the following (any 4)   1×4 = 4

      a) What is totipotency?
      b) What are explants?
      c) Define bioinformatics.
      d) What is an accession number in biological database?
      e) Give one example of a bacteria widely used in recombinant DNA technology.
      f) What is the role of NCBI in bioinformatics?

Q. 2 Answer the following (any 3)   2×3= 6

      a) Write about the significance of biotechnology.
      b) What is micropropagation?
      c) Write two applications of bioinformatics.
      d) Write four properties of enzyme.
      e) Name six different class of enzyme.

Q. 3 Write a note on (any 4)   5×4= 20

      a) Various techniques involved in plant tissue culture.
      b) Development of haploid plants.
      c) Development of transgenic plants.
      d) Biological databases
      e) Recombinant DNA technology
      f) Somatic embryogenesis