M.Sc. L.Sc.—IIS (723)

2017

Time: 3 hours

Full Marks: 40

Answer all questions

The figures in the right-hand margin indicate marks

Draw neat labelled diagrams wherever necessary

(BIOTECHNOLOGY)

 What is cloning vector? Give an account of different types of cloning vectors.

Or

Write notes on any two:

 7×2

- (i) Rules for restriction enzymes nomenclature
- (ii) Southern Blotting
- (iii) Model cloning experiments.

(Turn Over)

(15V) 313 (2)

2. What is C-DNA? How they are synthesized? Add a note on its use.

Or

Write notes on any two:

 $6\frac{1}{2} \times 2$

- (i) Gene transfer
- (ii) Molecular probes
- (iii) Importance of gene sequencing.
- 3. Give an account of production of transgenic plants. Mention its role in agriculture. 13

Or

Write notes on any two:

 $6\frac{1}{2} \times 2$

- (i) MAbs
- (ii) DNA fingerprinting
- (iii) Application of protoplast fusion.