

2019

Time : 2 hours

Full Marks : 40

Answer all questions

The figures in the right-hand margin indicate marks

*Candidates are required to answer in their own words
as far as practicable*

Draw neat labelled diagrams wherever necessary

(BIOTECHNOLOGY)

1. Describe types and construction of vectors. 14

Or

Write notes on any two of the following : 7×2

- (i) Dot and slot blots
- (ii) Generation of sticky ends
- (iii) Western blotting.

2. What do you understand by gene isolation and sequencing ? Explain it. 13

Or

Write notes on any two of the following : $6\frac{1}{2} \times 2$

- (i) cDNA
- (ii) Gene transfer technology
- (iii) Molecular probes.

3. Write a brief note on DNA finger-printing and its applications. 13

Or

Write notes on any two of the following : $6\frac{1}{2} \times 2$

- (i) Hybridoma technology
- (ii) Protoplast fusion
- (iii) Transgenic organisms.