

2018

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 various blotting techniques used in experimental biotechnology. 14

Or

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

- (i) Cosmids
- (ii) Vectors
- (iii) Molecular scissors.

2. Write a brief note on cDNA synthesis and its applications. 13

Or

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

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

3. Describe various applications of genetic engineering. 13

Or

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

- (i) DNA fingerprinting
- (ii) Protoplast fusion and somatic hybridization
- (iii) MAbs and production of transgenic plants.