

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

**(MOLECULAR BIOLOGY, BIOTECHNOLOGY
AND GENETIC ENGINEERING)**

1. Write brief note on type and structure of Nucleic acids. 14

Or

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

- (i) Recon
(ii) Split gene
(iii) Cistron.

2. Describe different methods used in DNA sequencing. 13

Or

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

- (i) Repetitive DNA sequence
(ii) Non-repetitive DNA sequence
(iii) Eukaryotic genome.

3. Describe Principle and types of Microscopy. 13

Or

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

- (i) Electrophoresis
(ii) Colorimetry
(iii) Electron microscopy.