2018

Time: 2 hours

Full Marks: 40

Answer any four questions

All questions carry equal marks

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

(MOLECULAR BIOLOGY)

- 1. Explain the structure and organization of human genome.
- 2. Write short notes on:
 - (i) C-value paradox
 - (ii) DNA renaturation kinetics.
- 3. Describe the process of DNA repair and recombination.

- 4. Write short notes on:
 - (i) Prokaryotic replication
 - (ii) Rec A and recombinases.
- 5. Describe the mechanism of prokaryotic transcription.
- 6. Write short notes on the following:
 - (i) Transcription and post transcription modification
 - (ii) RNA editing.
- 7. Describe regulation of gene expression in prokaryotes and eukaryotes.
- 8. Write about the method of DNA sequencing.