2015

Time: 2 hours

Full Marks: 40

The questions are of equal value.

Answer any four questions.

(MOLECULAR BIOLOGY)

- Give a comparative account of Genome organisation in a prokaryotic cell and an eukaryotic cell.
- Write short notes on the following:
 - (a) Cot Curve
 - (b) DNA renaturation kinetics
- Describe the various methods of DNA repair in an euenkaryotic cell.
- Write short notes on the following:
 - (a) Cre / Lox recombination
 - (b) Enzymes in replication

- Give an account of the role of various transcription factors in eukaryotic system.
- Write short notes on the following :
 - (a) Genetic code and its properties
 - (b) DNA methylation
- Explain the principle of Maxam-Gilbert method of DNA sequencing. Add a note on the application of DNA sequencing.
- 8. Write short notes on the following:
 - (a) Next-Gen Sequencing
 - (b) Types of ribozymes

