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**BSH 451**

**Second Semester M.Sc. Degree Examination, Sept./Oct. 2022**  
**BIOSCIENCES**  
**Molecular Biology**

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any four** of the following : **(4×4=16)**
- a) Central dogma of molecular biology
  - b) B-DNA
  - c) End problem of replication in eukaryotes
  - d) Control of prokaryotic DNA replication
  - e) Variation in codon usage
  - f) Eukaryotic promoters.

Write explanatory notes on **any five** of the following : **(5×6=30)**

- 2. Homologous recombination
- 3. DNA polymerase types
- 4. Protein folding
- 5. Trp operon attenuation
- 6. Structure of m-RNA
- 7. RNA processing
- 8. Inhibitors of protein synthesis.

Write essays on **any two** of the following : **(2×12=24)**

- 9. Discuss molecular basis of signal transduction in animals.
  - 10. Give an account of prokaryotic protein synthesis.
  - 11. Describe DNA transcription in eukaryotes.
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