

M.Sc. (Zoology) (NEP Pattern) Semester-II
02MSCZO03 - DSC Paper-III : Molecular Biology and Biotechnology

P. Pages : 1

Time : Three Hours



GUG/S/25/15426

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answers with suitable diagram wherever necessary.

- 1. Write a notes on molecular mechanism of Prokaryotic and Eukaryotic DNA replication. 16**

OR

Write notes on.

- a) Types of DNA damages.
- b) Double strand break repair.

- 2. Write a detailed notes on RNA polymerases. 16**

OR

Write notes on.

- a) Response elements and Inducible elements
- b) Termination factors.

- 3. Write an essay on southern blotting. 16**

OR

Write notes on.

- a) Gene Amplification.
- b) Restriction Enzymes

- 4. Give an account on disease prognosis and genetic counseling. 16**

OR

Write notes on.

- a) Bio insecticide
- b) Monoclonal antibodies.

- 5. Attempt the following. 16**

- a) Recombination Repair.
- b) Genetic code
- c) Gene silencing.
- d) Biofertilizers.
