

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

P. Pages : 1

Time : Three Hours



GUG/W/24/15426

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram wherever necessary.

- 1. Describe types of DNA damage, excision repair system. 16**

OR

Write notes on:

- a) DNA forms.
- b) DNA regulation.

- 2. Explain molecular mechanism of Prokaryotic transcription. 16**

OR

Write notes on:

- a) Retrovirusus.
- b) Fidelity of translation.

- 3. Explain isolation and sequencing of DNA by Maxam Gilbert methods. 16**

OR

Write notes on:

- a) Gene silencing.
- b) Gene replacement.

- 4. Describe microbial production of fermentation products. 16**

OR

Write notes on:

- a) Gene counselling.
- b) Bioinsecticides.

- 5. Attempt the following. 16**

- a) A DNA.
- b) Altered code.
- c) Restriction enzymes.
- d) Disease prognosis.
