

M.Sc. (Zoology) (CBCS Pattern) Sem-II
PSCZOOT07 - Paper-VII - Molecular Biology and Biotechnology

P. Pages : 1

Time : Three Hours



GUG/W/22/11226

Max. Marks : 80

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

1. Give an account of DNA replication in prokaryotes. **16**

OR

Write notes on

- a) Types of DNA damage.
- b) Structure of DNA.

2. Write an essay on translation in prokaryotes. **16**

OR

Write notes on:

- a) Operon.
- b) Transposable elements.

3. Describe cloning vectors for recombinant DNA technology. **16**

OR

Write notes on:

- a) Southern hybridization.
- b) Gene Silencing.

4. Write an essay on Hybridoma technology. **16**

OR

Write notes on:

- a) Biofertilizers.
- b) Single cell prating.

5. Attempt the followings. **16**

- a) B-DNA.
- b) RNA polymerase.
- c) SiRNA.
- d) Biogas.
