

AB-3363

Seat No. _____

M. Phil. Examination

April / May – 2003

Zoology : Paper - II

(Molecular Biology & Biotechnology)

Time : 3 Hours]

[Total Marks : 100

NB: All questions carry equal marks
All questions are compulsory
Illustrate your answers with neat diagrams wherever necessary.

1. Give an account on:
 - a) Amino acid sequencing in isolated protein.
 - b) Jumping genes.

OR

1. Give an account on:
 - a) Protein configuration..
 - c) Chimeric DNA.
2. Write briefly on:
 - a) Application of PCR in Genetic engineering.
 - b) DNA Foot printing.

OR

2. Write briefly on:
 - a) DNA polymorphism.
 - b) Isolation of DNA.
3. Describe:
 - a) Transgenic animals.
 - b) Hybridoma Technology and its uses.

OR

3. Describe:
 - a) Gene therapy.
 - b) Gene pools.
4. Give an account of:
 - a) Biotechnology in medicine.
 - b) Biosensors.

OR

4. Give an account of:
 - a) Biotechnology in industry.
 - b) Biotechnology in pollution control.
5. Write short notes on **any three** of the following:
 - a) Molecular probes.
 - b) Cytogenetic maps.
 - c) Transfection methods.
 - d) Molecular cloning.
 - e) Pollution monitoring.
 - f) RFLP.