

AE-788

M.Sc. (Final)
Term End Examination, 2016-17

ZOOLOGY

Special Paper : Cytology and Cytogenetics

Paper - IV

Molecular Biology, Developmental
Biology and Bioinformatics

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer **all** questions. All questions carry equal
marks.

Unit-I

1. What do you understand by Genetic Code ?
Describe the characteristics of genetic code.

OR

Describe the important enzymes and accessory
proteins involved in DNA replication.

(2)

Unit-II

2. Write an essay on DNA repair mechanism.

OR

Write a detailed note on prokaryotic and eukaryotic translation.

Unit-III

3. Describe the computer analysis of DNA sequence and its biological significance.

OR

Write an essay on Genes and differentiation.

Unit-IV

4. Write an essay on Transposable elements.

OR

Write a detailed note on Genetic engineering and genome analysis.