This question paper contains 2 printed pages]

VA-82-2024

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Fourth Semester) EXAMINATION NOVEMBER/DECEMBER, 2024

(New Pattern)

ZOOLOGY

Paper-IX

(Evolutionary Biology and Genetic Engineering)

(Friday, 13-12-2024)	Time: 2.00 p.m. to 4.00 p.m.
Time—2 Hours	Maximum Marks—40
N.B. := (1) Attempt all questions.	
(2) Illustrate your answer with necessary.	suitable labelled diagram, wherever
1. Describe in detail Lamarck theory of	evolution. 15
got Hill Hotel Or	
(a) Explain causes and role of ma	ss extinction in evolution. 8
(b) Illustrate adaptive radiation in	Darwin's finches. 7
2. Give an account of enzymes used as a to	ools in recombinant DNA technology. 15
Or Or	
(a) What is cloning? Explain it with	the examples of clonned animals. 8
(b) Describe gel electrophoresis.	7

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- 3. Write short notes on any two of the following:
 - (a) Biochemical evidences of evolution.
 - (b) Modes of speciation
 - (c) Types of RNA
 - (d) P.C.R. (Polymerase Chain Reaction).