

[This question paper contains 1 printed page]

NA-082-2023
FACULTY OF SCIENCE
B.Sc. (Second Year) (Fourth Semester)
OCTOBER/NOVEMBER, 2023
(CBCS)

Subject: ZOOLOGY
Paper No.: IX

(Evolutionary Biology & Genetic Engineering-IX (New) (CBCS))

(Saturday, 16-12-2023)

Time: 02.00 p.m. to 04.00 p.m.

Time - Two Hours

Maximum Marks-40

- N.B.: (i) Attempt all questions.
(ii) Illustrate your answer with suitable and labelled diagrams wherever necessary.

Q.1. Describe in detail Darwinism. **15 Marks**

OR

- a) Explain role of extinction in evolution. **08 Marks**
b) Describe causes and significance of adaptive radiation. **07 Marks**

Q.2. Give an account of structure, types and functions of RNA. **15 Marks**

OR

- a) Explain Southern Blotting Technique. **08 Marks**
b) Describe DNA Finger Printing. **07 Marks**

Q.3. Write short notes on any two of the following. **10 Marks**

- a) Embryonic Evidences of Evolution.
b) Hardy Weinberg Principal
c) Cloning Vectors
d) Genomic Libraries

NA-082-2023