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SB—116—2022

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Fourth Semester) EXAMINATION

MAY/JUNE, 2022

(Old Course)

ZOOLOGY

Paper-VIII

(Genetic Engineering and Evolution)

(Friday, 17-06-2022)

Time : 2.00 p.m. to 4.30 p.m.

Time— 2½ Hours

Maximum Marks—40

N.B. :— (i) Attempt *all* questions.

(ii) Illustrate your answer with suitably labelled diagrams, wherever necessary.

1. What is recombinant DNA technology ? Explain in detail restriction enzyme. 15

Or

(a) Gel electrophoresis. 8

(b) Genomic libraries. 7

2. Explain in detail Darwin's theory of evolution. 15

Or

(a) Lamarck's Theory 8

(b) Hardy-Weinberg principle 7

3. Attempt any *two* of the four (each of 5 marks) : 10

(a) Neo-Darwinism

(b) Aquatic Adaptation

(c) Genetic code

(d) DNA fingerprinting.

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