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SB—135—2022

FACULTY OF SCIENCE & TECHNOLOGY

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

MAY/JUNE, 2022

(New Pattern)

ZOOLOGY

Paper-IX

(Evolutionary Biology and Genetic Engineering)

(Monday, 20-06-2022)

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 suitable labelled diagram, wherever necessary.

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| 1. | Describe Darwin's theory of organic evolution. | 15 |
| | <i>Or</i> | |
| | (a) Describe palaeontological evidence of evolution. | 8 |
| | (b) Describe Biological species concept. | 7 |
| 2. | Describe transgenesis and transgenic animals. | 15 |
| | <i>Or</i> | |
| | (a) RNA Structure. | 8 |
| | (b) Genetic Code. | 7 |
| 3. | Attempt any <i>two</i> of the following : | 10 |
| | (a) Embryological Evidence of evolution | |
| | (b) Mass extinction causes | |
| | (c) DNA structure | |
| | (d) Gel-Electrophoresis. | |

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