This question paper contains 2 printed pages]

transgenic animals.

GA-105-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Fourth Semester) EXAMINATION APRIL/MAY, 2023

(New Course)

ZOOLOGY

Paper - IX

(Tuesday, 9-5-2023)	Time: 2.00 p.m. to 4.00 p.m.
Time—2 Hours	Maximum Marks—40
N.B. := (i) Attempt all questions.	Color Still Still Still
(ii) Illustrate your answer with su necessary.	uitable labelled diagram, wherever
1. Describe in detail theory of Lamarckism. Or	The state of the s
(a) Explain modes of speciation with re-	espect of allopatric and sympatric. 8
(b) What is mass extinction? Explain re	ole of mass extinction in evolution. 7
2. Describe structure, types and functions of Or	of DNA. 15
(a) Explain southern blotting technique	ue. 8
(b) What is transgenesis? Explain t	transgenesis with any example of

7

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3. Attempt any *two* of the following:

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- (a) Homology and Analogy
- (b) Hardy Weinberg equilibrium principle
- (c) Genetic code
- (d) DNA fingerprinting.

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