

B.Sc. (CBCS Pattern) Semester - II
USZOT04 - Zoology Paper-II (Genetics and Evolution)

P. Pages : 1

Time : Three Hours



GUG/S/23/11595

Max. Marks : 50

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw a well labelled diagrams wherever necessary.

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| 1. | Write an essay on monohybrid and dihybrid crosses. | 10 |
| | OR | |
| | a) Incomplete dominance. | 5 |
| | b) Multiple Allelism. | 5 |
| 2. | Write a detailed account of linkage and crossing over. | 10 |
| | OR | |
| | a) Inversion and Insertion. | 5 |
| | b) Gene mutation. | 5 |
| 3. | Write an essay on Miller's experiment. | 10 |
| | OR | |
| | a) Types of Fossils. | 5 |
| | b) Lamarkism. | 5 |
| 4. | Describe different modes of speciation. | 10 |
| | OR | |
| | a) Mass extinction. | 5 |
| | b) Biological concept of species. | 5 |
| 5. | Write four or five lines on each of the following any ten . | 10 |
| | i) Allele. | |
| | ii) Kappa particles. | |
| | iii) Colour blindness | |
| | iv) Down syndrome. | |
| | v) Mutagen. | |
| | vi) Induced mutation. | |
| | vii) Vestigial organ. | |
| | viii) Paleontology. | |
| | ix) Eobionts. | |
| | x) Melanism. | |
| | xi) Galapagos Island. | |
| | xii) Stabilizing selection. | |
