

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

P. Pages : 1

Time : Three Hours



GUG/W/23/11595

Max. Marks : 50

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram whenever necessary.

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| 1. | Write an essay on sex-linked inheritance. | 10 |
| | OR | |
| | a) Dominant epistasis. | 5 |
| | b) Cytoplasmic inheritance in paramecium. | 5 |
| 2. | Write an account on Gene mutation. | 10 |
| | OR | |
| | a) Klinefelter syndrome. | 5 |
| | b) Aneuploidy | 5 |
| 3. | Write a note on Darwin's theory of evolution. | 10 |
| | OR | |
| | a) Lamarkism. | 5 |
| | b) Oparin theory | 5 |
| 4. | Describe in detail different modes of speciation. | 10 |
| | OR | |
| | a) Directional selection. | 5 |
| | b) Causes of mass extinction | 5 |
| 5. | Write four or five lines on each of the following any ten . | 10 |
| | i) Incomplete dominance. | |
| | ii) Allele | |
| | iii) Phenotypes | |
| | iv) Down's syndrome | |
| | v) Deletion | |
| | vi) Point mutation | |
| | vii) Coacervate droplets | |
| | viii) Industrial melanism. | |
| | ix) Fossil. | |
| | x) Stabilizing selection. | |
| | xi) Darwin's Finches. | |
| | xii) Speciation | |
