

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

P. Pages : 1

Time : Three Hours



GUG/W/22/11595

Max. Marks : 50

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

1. Describe in detail extra-chromosomal inheritance. **10**

OR

Write notes on:

- a) Law of independent assortment
- b) X-linked inheritance

2. Explain the phenomenon of gene mutation. **10**

OR

- a) Crossing over
- b) Aneuploidy

3. Describe in detail Oparin theory of origin of life. **10**

OR

- a) Types of fossils
- b) Darwinism

4. Describe in detail isolating mechanisms. **10**

OR

- a) Industrial melanism
- b) Causes of mass extinction

5. Write four or five lines on each of the following **any ten**. **10**

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|---------------------------|-----------------------|
| i) Epistasis | ii) Allele |
| iii) Incomplete dominance | iv) Down's syndrome |
| v) Insertion | vi) Turner's syndrome |
| vii) Lamarkism | viii) Dating |
| ix) Coacervate droplet | x) Species |
| xi) Directional selection | xii) Darwin's finches |
