

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

P. Pages : 1

Time : Three Hours



**GUG/W/24/11595**

Max. Marks : 50

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

**1. Write a note on laws of genetics. 10**

**OR**

- a) Extra Chromosomal Inheritance. 5
- b) Write a short note on Kappa Particle. 5

**2. Write in details on Chromosomal Anomalies in humans. 10**

**OR**

- a) Linkage 5
- b) Crossing over 5

**3. Give an account on major events in life history. 10**

**OR**

- a) Theories of Evolution. 5
- b) Type of Fossils. 5

**4. Discuss in details on Modes of speciation. 10**

**OR**

- a) Darwin's Finches. 5
- b) Mass Extinction 5

**5. Answer the following any ten. 10**

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|----------------------------|----------------------------|
| i) Progeny                 | ii) Traits                 |
| iii) Alleles               | iv) Missense mutation      |
| v) Physical mutagen        | vi) Nonsense mutation      |
| vii) Ebionts               | viii) Equus                |
| ix) Dinohippus             | x) Melanism                |
| xi) Directional selections | xii) Disruptive selections |

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