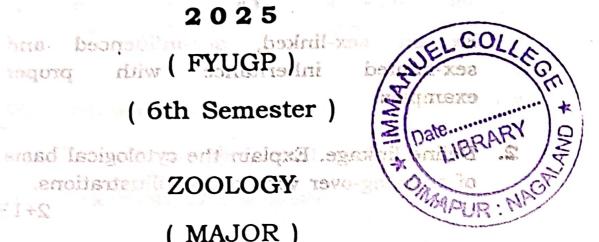
2025

ex-linked. unificanced and diw (FYUGP) Ini

(6th Semester)

ever YDOLOGY Teventions.

(MAJOR)



Paper: ZOOC12 measure Paper: Add a note on comate

a. What are an chromosomes?

(Principles of Genetics)

Full Marks: 75

3. Describe the various types of chaomosomes.

Pass Marks: 40%

relies on Time: 3 hours manes actio

mechanism of cation in relation to

The figures in the margin indicate full marks for the questions

- Write notes on any two of the following: 71/2×2=15
 - Incomplete dominance
 - Describe the Multiple allelism mustion in Saccharomyces.
- 21-2(c) Codominance sometimental bigardea

(Turn Over)

L25/583

(3)

Explain sex-linked, sex-influenced inheritance with proper sex-limited examples. (6th Semester)

15

2. Define linkage. Explain the cytological basis of crossing-over with proper illustrations.

2+13=15

(SCI Or

Explain recombinant frequency as a measure of linkage intensity. Add a note on somatic cell hybridization. 10+5=15

3. Describe the various types of chromosomal 15 abberations with one example each.

Or

Define gene mutation. Explain the molecular mechanism of mutation in relation to UV-light and chemical mutagens. 2+13=15

Explain 4. What are sex chromosomes? the mechanism of sex determination in 2+13=15 Drosophila.

Or

Describe the process of mitochondrial mutation in Saccharomyces. Add a note on 10+5=15 polygenic inheritance.

5. Explain the process of transduction and conjugation with proper diagrams. 7%+7%=15

Or

Write notes on the following:

7%+7%=15

- Transposable elements
- P elements in Drosophila



L25/583

(Continued)

L25-100/583

Bs/Z00/C12