(i) Printed Pages : 2

(ii) Questions :9 Sub. Code: 1213 Exam. Code: 0069

B.Sc. (Hons.) 3rd Semester

Roll No.

1125

BIO-TECHNOLOGY Paper : BIOT-Sem-III-II-T : Genetics

What is Sex'f inked inheritance ? Explain with examples.

Time Allowed : Three Hours]

[Maximum Marks: 67

Note :- Attempt one question from each of the Units I-IV. Question No. 1 is compulsory. Support your answers with well labelled diagrams wherever necessary.

1. Write short answers :

(a) Pericentric and Paracentric Inversions

(b) Sex Linkage

(c) Recombination Frequencies

(d) Somatic Cell Hybridization

(e) Chi square test

(f) Mutagenic agents

(g) Transformation

(h) Auxotrophs

(i) Gene Linkage

(j) Pedigree.

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Turn over

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- What do you understand by Non Disjunction ? How does it prove the chromosomal theory of inheritance ? 13
- 3. What is Polyploidy ? Explain its types and give significance.

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- 4. What is Sex Linked Inheritance ? Explain with examples. 13
- 5. What is Gene Mapping ? Explain method of tetrad analysis for gene mapping. 13

UNIT-III

- What is Hardy Weinberg Equilibrium ? How can it help in determining genotypic frequencies ?
 13
- 7. Describe various mechanisms of DNA repair in living systems.

13

1110

13

UNIT-IV ...

- 8. What are Auxotrophs? Explain a method for their isolation. 13
- Explain the phenomenon of extra chromosomal inheritance in chloroplast genetic system.

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