(Printed Pages 3) D Roll No. (20721)B.Sc. (Biotech.)-II Year

NS-3467 (CV-II)

B.Sc. (Biotechnology) Examination, June - 2021

Molecular Genetics and Cytogenetics (B-204)

B.Sc. (Bio-Tech.)

[Maximum Marks: 50 Time: 1½ Hours J

Note: Attempt any two questions. All questions carry equal marks.

- What are inversions? Discuss different 1. types of inversions with examples.
- Write short notes on: 2.
 - (a) Position effect
 - (b) Fine structure of r II locus in T, Phage

- Discuss phenotypic effects of duplications and its role in plant breeding & evolution with examples.
- Write short notes on:
 - (a) Tetrasomy
 - (b) Role of polyploidy in evolution
- Differentiate between:
 - (a) Monosomy & Nullisomy
 - Meiotic pairing & Chromosomal disjunction
 - (c) AFLP and RFLP
 - (d) Repetitive DNA & Satellite DNA
- Describe in detail the tetrad analysis in Diploid Mapping.
- What is Heterosis? Discuss types and causes of Heterosis and its application in crop improvement.

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- Write an essay on Animal genome mapping.
- 9. Write short notes on:
 - (a) Encode project
 - (b) SNP
- 10. Give a brief account on:
 - (a) Bridge breakage fusion cycle
 - (b) Robertsonian Translocation

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