



**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 3rd Semester Examination, 2020

**CC7-BOTANY**

**GENETICS**

Full Marks: 40

**ASSIGNMENT**

*The figures in the margin indicate full marks.  
Candidates should answer in their own words and adhere to the word limit as practicable.  
All symbols are of usual significance.*

**Answer any four of the following questions each within 300 words** 10×4 = 40

1. Describe Mendelian Theory for monohybrid and dihybrid cross. Mention the events of dominant and recessive epistasis with suitable examples from plants. 10
2. Discuss extra chromosomal inheritance with two examples. 10
3. Discuss role of Allopolyploid in evolution of agricultural plants with special reference to Amphidiploid. 10
4. Describe molecular mechanism of mutation taking tautomerism and base analogs incorporation as example. 10
5. Explain Cis-Trans complementation test for confirming functional allelism with suitable diagram. 10

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