

**B.Sc Part III (Honours) Examination 2020**

**Old Syllabus (1+1+1)**

**Subject- Botany**

**Eighth Paper**

**Time: 2hrs**

**Full Marks: 50**

1. Answer any Ten questions:-

5x10 =50

- a. Distinguish between double trisomy and tetrasomy.
- b. Describe the ultrastructure of Endoplasmic Reticulum(ER).
- c. Comment on the main features of DNA molecule as proposed by Watson and Crick.
- d. Explain inhibitory gene interactions.
- e. How does UV-rays cause mutation?
- f. Mention the steps of Pure-Line Selection.
- g. Define Phospho-diester linkage with examples.
- h. Distinguish between Nucleoside and Nucleotide.
- i. Discuss the different types of Aneuploidy with suitable examples.
- j. Mention the importance of allopolyploidy in crop improvement.
- k. Explain the genetic basis of heterosis.
- l. State the method of Protoplast Culture.