B.Sc. VI Semester Examination-2021

Subject- Botany (Hons)

Paper - CC-13

Genetics and Plant Breeding

Full Marks –40 Time – 2 hrs

1. Answer any eight of the following:-

5x8=40

- a) Explain the Law of Independent Assortment in the context of Mendel's dihybrid cross.
- b) Describe lethal factor with one suitable example.
- c) Comment on Penetrance and Expressivity.
- d) Describe the phenomenon of linkage and mention its types.
- e) Write a short note on different types of aneuploidy.
- f)Describe the different types of translocation with suitable diagram.
- g) How non-ionizing radiation causes gene mutation?
- h) Discuss the merits and demerits of pure line selection.
- i)Mention the characteristic features of heterosis.
- j) Briefly discuss the applications of mutation breeding.