

**B.Sc. VI th Semester (Hons.) Examination-2020**

**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) Distinguish between incomplete dominance and co-dominance with examples.
- b) Briefly discuss Multiple Allelism in the context of Human blood group inheritance.
- c) Explain cytological basis of crossing over with a suitable experimental evidence.
- d) Describe variegation of plastid in Four O'clock Plant.
- e) Distinguish between paracentric and pericentric inversions with suitable diagram.
- f) Write a short note on different types of trisomics.
- g) Mention the steps of hybridization in a self pollinated crop.
- h) Write a short note on genetic basis of heterosis.
- i) Discuss role of allopolyploidy in the evolution of hexaploid wheat plant.
- j) Write a brief note on DNA repair mechanisms.