

**Msc. 3<sup>rd</sup> Semester Examination. 2021.**

**BOTANY**

**Course Title: Cytogenetics, Plant Breeding and Biostatistics.**

**Course code- 301C (PR)**

**Course ID 31361.**

**Time- 2 Hours.**

**Full Marks 10.**

*The figures in the right hand side margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.*

Q1. Answer the following: 4

In an experiment on garden pea, 4 different plants were counted.

Yellow cotyledon and inflated pod = 555

Yellow cotyledon and constricted pod = 185

Green cotyledon and inflated pod = 195

Green cotyledon and constricted pod = 65

Calculate the goodness of fit in a Chi-square test for 9:3:3:1 ratio at  $p=0.05$  level and comment. (Tabulated Chi-square for 3 degrees of freedom at  $p=0.05$  is 7.81)

Q2. Identify with reasons: A and B. 3

3. Viva voce. 3