

**U.G. 5th Semester Examination - 2021****BOTANY****[HONOURS]****Discipline Specific Elective (DSE)****Course Code : BOTH-DSE-P-02****[PRACTICAL]****(Plant Breeding and Biometry)**

Full Marks : 20

Time : 2 Hours

*The figures in the right-hand margin indicate marks.*

1. Answer any **one** of the following questions: 7
- a) Find the mean, median, mode, standard deviation and standard error for the following list of values: 7  
13, 18, 13, 14, 13, 16, 14, 21, 13, 10
- b) Perform a suitable statistical test on the data of F<sub>2</sub> generation of crosses between tall and dwarf varieties of rye.

Number of plants in F<sub>2</sub>

Tall          Dwarf

715          230

Test the hypothesis at 5% level and comment on the nature of inheritance. 5+2=7

(The chi square value for 1 d.f. at 5% level is 3.84)

2. Answer the following questions. 1×3=3
- a) What is emasculation?
- b) Define goodness of fit.
- c) What is correlation coefficient?
3. Laboratory records. 5
4. Viva voce. 5

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*[Turn over]*