

KERALA AGRICULTURAL UNIVERSITY
B.Sc (Hons.) Ag 2013 Admission
Vth Semester Final - Examination- February-2016

Cat. No: Pbg.3104

Title: **Breeding of Crops (2+1)**

Marks: 50.00

Time: 2 hours

(10 x 1=10)

I Answer all questions

- 1) *Musa paradisiaca* is a _____ (auto triploid/auto tetraploid)
2. *Solanum tuberosum* is _____ (auto triploid/auto tetraploid)
3. *Triticum aestivum* is (allo hexaploid /auto tetraploid)
4. *Nicotianum tabacum* is _____ (auto tetraploid/ allo tetraploid)
5. Sugar cane belongs to the family (solanaceae/graminae)
- 6) Dwarfing gene in wheat is _____

Expand and write head quarters of the following

7. ICRI SAT
8. CRR I
9. NBPGR
10. IARI

(5 x 2=10)

II Write short notes on any FIVE questions

1. Domestication
- 2) TRIPS
3. Acclimatization
- 4) Breeding objectives in mango
5. Differences between mass selection and pureline selection
- 6) Geographical indications
7. Distant hybridization

(5 x 4=20)

III Write short essay on any FIVE questions

1. Natural and artificial selection
- 2) Hardy Weinberg law
3. Primary centre of origin
4. Breeding methods in tomato
5. Backcross breeding to develop a resistant variety in wheat
- 6) Activities of NBPGR
7. Explain the lint quality parameters in cotton

IV Write essay on any ONE

(1 x 10=10)

1. Write an essay on salient features of PPV and FR Act

Describe the qualifying attributes for variety registration under PPV and FR Act. What are the main functions of PPV and FR authority

2. Explain the three line method of developing hybrids in rice