KERALA AGRICULTURAL UNIVERSITY



B.Sc (Hons.) Agriculture 2015 Admission
IIIrd Semester Final Examination-February-2017

Cat. No: Pbgn - 2103 Citle: Principles of Plant Breeding (2+1)	Marks: 50.00 Time: 2 hours
Fill up the blanks 1. Indian Institute of Spices Research (IISR) is located at 2. The process of formation of somatic embryo from the callus is called at some of is common in family 3. Distyly is common in family 4	
II Differentia te between any FIVE of the following 1. Trisomi / Nullisomi 2. Heterosis / inbreeding depression 3. Genetic Male Sterility (GMS) / CMS 4. Micro centre / Secondary centre 5. Self incompatibility / Male sterility 6. Synthetic variety/transgenic variety 7. Convergent cross/Double cross	(5x2=10)
 Write short answers on any FIVE Describe the method of recurrent selection in population improvem Define polyploidy? How aneuploids differ from euploids. What is called self incompatibility? Name the technique incompatibility. Importance of mutation breeding in crop improvement. Describe the development of single cross hybrids. Compare pure line selection with mass selection. Importance of auto polyploids in plant breeding. 	
 IV Write essay on any ONE 1. Explain different methods of breeding for vegetatively propagated p 2. What are the different steps involved in the evolution and release through hybridization and selection? 	(1x10=10) plants. se of a new variety