KERALA AGRICULTURAL UNIVERSITY B.Sc (Hons.) Agriculture Programme – 2011 Admission Ist Semester Final Examination – February / March 2012

Title Cour	: Pbgn 1102 rse : Principles of Genetics and Cytogenetics (2+1)	Marks : 80 Time : 3 Hours
I. Fil	l up the blanks	(10 x 1 = 10)
2. 3. 4. 5. 6. 7. 8. 9	poles at stage are referred to as the power houses of cells Proteins are made up of a chain of A plant with more than two sets of chromosomes (genomes) is c Germplasm theory was proposed by	oving to opposite alled
	Write short notes on ANY TEN of the following	(10 x 3 = 30)
2 3 4 5 6 7 8 9 1 1 1	 Mendels law of independent assortment and its significance Quantitative traits Autopoly ploidy Multiple alleles Spontaneous mutations and its origin Degeneracy of genetic code Interference and coincidence (in linkage Supplementary gene action Chemical mutagens Homologous chromosomes 	•
III.	Write short essays on ANY SIX of the following	$(6 \times 5 = 30)$
4 5 6 7		
IV.	Write an essay on ANY ONE of the following	$(1 \times 10 = 10)$
1 Structural aberrations of chromosomes, their origin and significance in plants		

 Structural aberrations of chromosomes, their origin and significance in plants
 Cytoplasmic inheritance, its characteristics and difference from chromosomal inheritance