KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2013 Admission IIIrd Semester Final Examination- February-2015

	No: Tpbr.2106 Marks: Principles of tree improvement (2+1) Time: 2 h	
	in the blanks (10 x 1=10)	
1.	tried hybridization in Populus tree species	
2.	andare pioneer workers of Forest genetics in India	
3.	Number of meiotic divisions involved in Megagametogensis is	
4.	. In recurrent Apomixis ,unreduced embryo sacs are produced by a process known as _	
5.	is the example of geitonogamy	
6.	did progeny testing in plants	
7.	Non additive variance can be divided intoand	
8.	developed first transgenic forest tree	
State	True or False	
9.	. Variability present in forest trees can't be separated into Genetic variabili	ty and
	Environmental variability	
10	0. An allele present on one locus influencing the expression of the other allele pre	sent o
	another locus is termed as dominance gene action	
II Wr	rite short notes on any FIVE (5 x 2=10))
1.	Land Race	
2.	Heterosis	
3.	Combining Ability	
4.	Additive Gene Action	
5.	Problem associated with Tree Improvement	
6.	Quantitative Inheritance	
7.	Seed production Areas	
III W	rite short essays on any FIVE of the following (5 x 4	=20)
1.	. Racial variation	
2.	. Mechanisms favouring cross pollination	
3.	. Variation in natural stands	
4.	. Heritability and its significance	
5.	Exotic Forestry	
6.	. Black Cross Breeding	
7	Evolutionary forces / Factors affecting variation	•

IV Write essay on ANY ONE

- 1. Germplasm Conservation
- 2. Selection methods

(1 x 10=10)