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## KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Forestry 2016 Admission III Semester Final Examination-February-2018

Tree Improvement (2+1)

		Marks: 50 Time: 2 hours
	Fill in the blanks:	(10x1=10)
1	Interactions among gene loci is known as	
2	Surendran et. al. are editors of the book entitled	
3	The particular year in which the heavy seed production takes place as	is commonly known
4	Breeding value is double of	
5	Institute of Forest Genetics and Tree Breeding is located at	
	State True or False	
6	Offspring that have one or both parent common is termed as Siblings.	
7	Tree improvement programmes are generally short term.	<b>"</b> -
8	Mutation is the sudden changes in genotype usually caused by a smal	
9	Provenance is the source of a place of origin of the reproductive mate	
10	Transfer of pollen grains from one flower to another on the same plant is called	
	Autogamy	
	Write Short notes on ANY FIVE of the following	(5x2=10)
- 1	Cryopreservation	
2	Heritability	
3	Back cross breeding	x
4	Provenance trail	
5	Differentiate between CSO and SSO.	
6	Objective of tree improvement	
7	Clonal seed orchard	
	Answer ANY FIVE of the following	(5x4=20)
1	Diallel mating designs and its limitations.	
2	Seed orchards and its types.	
3	Advantages and disadvantage of hybridization in forestry	
4	Conservation of forest trees germplasm.	
5	Explain the steps involved in Plus Tree selection.	
6	Write in brief about breeding for wood property.	
7	Differentiate between an elite tree and check tree.	
	Write an essay on ANY ONE of the following	(1x10=10)

- 1 Write note on vegetative propagation methods and their application in forest tree species.
- 2 Explain the planning and designs of seed orchards with proper schematic representation or equation.

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