KERALA AGRICULTURAL UNIVERSITY

B.Sc.(Hons.) Agriculture – 2010 Admission - Ist Semester Final Examination – March/April 2011

Cat.	i. No. : Hort 1101 e : Fundamentals of Horticulture (1+0)	Max. marks: 80 Time : 3 hours
I	Fill in the blanks	$(20 \times 0.5 = 10)$
1.	Parthenogenesis is seen in	
2.	system of training gives equal dominance for all th	e
۷.	branches	
3.	The common root stock for sapota is	
<i>3</i> .	Nyoellar embryos are common in	
5.	Growth regulator used for inducing rooting of cuttings is	
6.	Top working is done for	
7.	is a special kind of pruning to expose the tree to full su	nlight
8.	15% more trees can be accommodated in system of	
0,	planting	
9.	The condition where pistil mature before stamen is called	to all morn de
	Eurosing trees to smoke to induce flowering is	eginnishath et.
10.	Mixed cropping is commonly seen in plantations	
11.	tweetment given to seeds having physiological	ly
12.	dormant embryos is called	
12	acid is used to overcome dormancy of seeds	
13.	is the commercial method of propagation in mango	
14.	phase of piant carbohydrate utilization is mo	ore than
15	accumulation.	
1.0	Becomeration of plantlets directly from the explant is	comments.
16	G pruning in grapes is done to enhance	
17	are the two trees planted as wind break	ks of
18		
a 2	orchards 9. Fruit drop in horticultural crops is controlled by spraying	on Turk wift one tool V
	"1:11ty is commonly seen in	
20	0. Graft incompatibility is commonly source.	

II Write answers in a word or sentence / Define

 $(10 \times 1 = 10)$

- 1. Define soil conditioners.
- 2. What are hot beds?
- 3. Give the classification of horticultural crops based on climatic zones of Kerala?
- 4. Define parthenocarpy
- 5. Define dehorning
- 6. What is root pruning?
- 7. Write briefly on quincunx system of layout of orchards.
- 8. Define somaclonal variation
- 9. What are the objectives of training?
- 10. Define crop rotation.

III Write short notes / answers etc on any ten

 $(10 \times 2 = 20)$

- Differentiate training and pruning.
- Mention the different methods of budding and furnish the advantages
 and disadvantages.
- 3. List out the advantages of micropropagation.
- 4. Write briefly on vegetative reproductive balance in many
- 5. Discuss briefly on double working.
- 6. What are the factors to be considered in selecting the site for orchards
- 7. Give the classification of vegetables based on the parts used.
- 8. Describe the steps involved in the formation of a graft / bud union.
- 9. Write briefly on propagating structures and plant growth structures in the nursery
- 10. Give the advantages and disadvantages of seed propagation
- 11. Give the importance of organic matter in soil on growth and production of horticultural crops.
- 12. What are the different methods of layering. Cite examples of plants propagated by these methods.

IV Write short essays on Any Four of the following

 $(4 \times 5 = 20)$

- 1. Give an account of the biotic and abiotic factors affecting the production of horticultural crops.
- 2. What is graft incompatibility? Elaborate on the factors affecting incompatibility.
- 3. What is micropropagation? Discuss the principles and potential application of micropropagation in horticultural crops
- 4. What is flowering? Discuss various pattern and sex forms in horticultural crops
- Define dormancy. Mention the types and methods to overcome dormancy of seeds.
- 6. Explain the importance of post harvest handling of fruits and vegetables in India

V Write essays on Any Two

 $(2 \times 10 = 20)$

- Discuss the scope and importance of horticultural crops in India and Kerala.
- 2. Discuss the different planting systems followed in orchard crops.
- 3. Furnish the classification of growth regulators and their uses in horticultural crop production.