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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE  
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: V (New)	Term	: I	Academic Year	: 2019-20
Course No.	: H /FS 359	Title	: Orchard and Estate Management		
Credits	: 2 (1+1)	Time	: 14.00 to 16.00	Total Marks	: 40
Day & Date	: Tuesday, 05.11.2019				

- Note :
1. Solve ANY EIGHT questions from SECTION "A".
  2. All questions from SECTION "B" are compulsory.
  3. All questions carry equal marks.
  4. Draw neat diagrams wherever necessary.

Shri Shiva, College of Horticulture  
AMRAVATI

Library Department

SECTION "A"

- Q.1 Describe in brief different systems of planting orchard crops.
- Q.2 a) Enlist different irrigation methods.  
b) Write in detail drip irrigation methods.
- Q.3 Describe in brief clean cultivation, sod culture and sod mulch.
- Q.4 a) Enlist different methods of grafting used for rejuvenation of fruit tree.  
b) Write in detail about cleft grafting.
- Q.5 a) Define high density planting.  
b) Discuss in brief advantages and disadvantages of high density planting.
- Q.6 Write in brief factors leading to unfruitfulness.
- Q.7 a) Define Integrated nutrient management.  
b) Discuss the importance of INM.
- Q.8 a) Define crop model.  
b) Write in brief about utility of crop models.
- Q.9 a) Define multi-species cropping.  
b) Write in short about types of multi-species cropping systems.
- Q.10 Write short notes.(Any Two)  
a) Wind break  
b) Orchard management  
c) Crop regulation in mango

SECTION "B"

- Q.11 Fill in the blanks.
- 1) The term \_\_\_\_\_ refers to large area (more than 1000 acres) of sole crop cultivation.
  - 2) Hexagonal system of planting accommodates \_\_\_\_\_% more plants than square system.
  - 3) Wind breaks are planted on \_\_\_\_\_ direction of orchard.
  - 4) The second crop is planted into the first crop before harvest is called \_\_\_\_\_ cropping.
- Q.12 Define the following terms.
- 1) Orchard
  - 2) Cover crop
  - 3) Top working
  - 4) Integrated pest management

