

**School of Agriculture****Bachelor of Science Honours in Agriculture  
Semester End Examination - Aug 2024****Duration : 180 Minutes  
Max Marks : 100****Sem V - A1UA509B - Hi Tech Horticulture***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Write down the name of different types of nursery. K1(2)
- 2) Explain how does a drip irrigation system work, and what are its advantages? K2(4)
- 3) Summarize the key steps involved in micro-propagation of horticulture crops? K2(6)
- 4) Make use of diagram describe drip irrigation system and also enlist it's components. K3(9)
- 5) Illustrate the benefits of make use of VRA (variable rate applicator) technology in horticulture. K3(9)
- 6) Interpret micro-sprinkler systems. Describe other types of micro-irrigation systems in detail. K5(10)
- 7) Examine Geographic Information Systems (GIS) and its role in precision farming? K4(12)
- 8) Perceive the role of a controller or timer in a micro irrigation system and its benefits. K5(15)
- 9) Examine the integration of various precision farming components optimize resource efficiency and improve crop yields. K5(15)
- 10) What is hydroponics? Determine the benefits of using a hydroponic greenhouse system for crop cultivation? K6(18)