

## Question Bank

Q1/ Define IoT and what are use cases in agriculture? 8 marks

Q2/ what are Components of Soil Data Management? 8 marks

Q3/ what are Principle of soil sensor working? 8 marks

Q4/ write process of Preparing of Soil Samples for laboratory analysis? 6

A1/

Refer to the online network of device which communicates with the other device to data transformation.

- Monitoring of climate conditions.
- Greenhouse automation.
- Crop management.
- Precision farming.

A2/

**Data Collection:** Gathering soil samples, measuring properties.

2. **Data Storage:** Secure and organized databases.

3. **Data Analysis:** Tools for processing and interpreting data.

4. **Data Visualization:** Graphs, maps, and reports for easy understanding

Q3/

**Data Acquisition:** used to measures specific properties of soil.

- Signal Conversion:** converts the measured data into digital signals.
- Signal Transmission:** The digital signals are transmitted to a computer or controller via wireless or wired communication methods.
- Data Processing:** processes the data to extract useful information, such as soil moisture, temperature, pH value, etc.

Q4/

1. Drying
2. Grinding
3. Sieving

4. Mixing
5. Storing

Q5/ Define Precision agriculture and remote sensing.

Q6/ What are the components of GIS?

Q6/ What are the benefits of precision agriculture?

Q7/ What are the factors to consider when selecting an Irrigation System?

Q8/ count the application of remote sensing in agriculture.

Q9/ What is fertigation and write it's advantages.