SRM VALLIAMMAI ENGINEERING COLLEGE (An Autonomous Institution)

SRM Nagar, Kattankulathur-603203

DEPARTMENT OF AGRICULTURAL ENGINEERING

QUESTION BANK



VI SEMESTER 1902603 PROTECTED CULTIVATION Regulation–2019 Academic Year 2024–2025

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DEPARTMENT OF AGRICULTURAL ENGINEERING <u>QUESTION BANK</u>

SUBJECT: PROTECTED CULTIVATION

SEM / YEAR: 06 /III

UNIT-I: PROTECTED CULTIVATION AND ITS TYPES

Importance and methods of protected culture in horticultural crops - Importance and scope of protected cultivation – different growing structures of protected culture viz., green house, poly house, net house, poly tunnels, screen house, protected nursery house - study of environmental factors influencing greenhouse production – cladding / glazing / covering material – ventilation systems – cultivation systems including nutrient film technique / hydroponics / aeroponic culture – growing media and nutrients – canopy management – micro irrigation and fertigation systems.

PART - A

| Q.NO | QUESTIONS | 6 | BT LEVEL | COMPETENCE |
|------|--|-------|----------|---------------|
| 1. | Define Protected cultivation. | m | BT-2 | Understanding |
| 2. | Write any 4 merits of greenhouses. | G) | BT-1 | Remembering |
| 3. | Define Glazing. | | BT-2 | Understanding |
| 4. | What are the objectives of protected cultivation? | | BT-1 | Remembering |
| 5. | Classify greenhouse based on frame. | | BT-1 | Remembering |
| 6. | Explain low tunnel technology in protected cultivation | n? | BT-2 | Understanding |
| 7. | List greenhouse types based on covering materials. | | BT-1 | Remembering |
| 8. | Define the term greenhouse. | | BT-1 | Remembering |
| 9. | Define cladding? | | BT-2 | Understanding |
| 10. | What is Gutter? | | BT-1 | Remembering |
| 11. | List the merits of ventilation system. | | BT-2 | Understanding |
| 12. | Classify the greenhouse based on the spans. | | BT-2 | Understanding |
| 13. | What are the institutions involved in Protected Cultivation? | | BT-1 | Remembering |
| 14. | Where is the Centre of Excellence for vegetables loc in Tamil Nadu under which project it was started? | ated | BT-1 | Remembering |
| 15. | What is Nutrient film technique? | | BT-2 | Understanding |
| 16. | List out the limitations of protected cultivation. | | BT-1 | Remembering |
| 17. | Explain about hydroponics? | | BT-2 | Understanding |
| 18. | What are the different types of cladding materials? | | BT-1 | Remembering |
| 19. | Explain the key points of National Horticulture Boar National Horticulture Mission. | d and | BT-2 | Understanding |
| 20. | Compare Gothic arch type and Gutter type greenhous | se. | BT-2 | Understanding |
| 21. | Illustrate the environmental factors influencing | | BT-2 | Understanding |

| | microclimate? | | |
|-----|--|------|---------------|
| 22. | Why insect proof net house is used in protected cultivation? | BT-1 | Remembering |
| | Explain the role of Centre for Protected Cultivation Technology. | BT-1 | Remembering |
| 24. | Differentiate hydroponics and aeroponics. | BT-2 | Understanding |
| 25. | What is canopy management? | BT-1 | Remembering |

PART – B

| Q.NO | QUESTIONS | BT LEVEL | COMPETENCE |
|------|---|----------|------------|
| | | | |
| 1. | Differentiate walk in tunnel and low tunnel technology. | BT-4 | Analysing |
| 2. | Explain plant responses to various greenhouse Environmental factors. | BT-4 | Analysing |
| 3. | Explain the nutrient film technique with neat sketch. | BT-3 | Applying |
| 4. | Discuss the components of micro-irrigation. | BT-3 | Applying |
| 5. | Detail about the low tunnel technology with neat diagram. | BT-3 | Applying |
| 6. | Write about the classification of Greenhouse based on various factors with suitable diagram NGINES Reposition of Greenhouse based on various factors with suitable diagram. | BT-4 | Analysing |
| 7. | Classify the different types of media. | BT-4 | Analysing |
| 8. | Brief about high-cost greenhouse technology. | BT-3 | Applying |
| 9. | Explain about canopy management. | BT-4 | Analysing |
| 10. | Describe about types of greenhouse ventilation. | BT-4 | Analysing |
| 11. | Discuss about fertigation in green house. | BT-4 | Analysing |
| 12. | Brief notes on poly house. | BT-3 | Applying |
| 13. | Describe the components of greenhouse. | BT-4 | Analysing |
| 14. | Categorize different cladding materials. | BT-4 | Analysing |
| 15. | Write the important criteria for site selection in protected cultivation. | BT-3 | Applying |
| 16. | Illustrate the factors influencing microclimate? | BT-3 | Applying |
| 17. | Elaborate the heating and lighting system in greenhouse. | BT-4 | Analysing |

PART-C

| Q.NO | QUESTIONS | BT LEVEL | COMPETENCE |
|------|---|----------|------------|
| | | | |
| | Elaborate different types of growing media and its importance. | BT-4 | Analyzing |
| 2. | Differentiate micro irrigation and fertigation system. | BT-4 | Analyzing |
| | Explain about cultivation systems including nutrient film technique, hydroponics and aeroponic culture. | BT-3 | Applying |
| | Detail the environmental factors that are influencing greenhouse production. | BT-3 | Applying |
| | Evaluate economic analysis and cost estimation of greenhouse of 80meter square floor area. | BT-5 | Evaluating |

UNIT-II: PROTECTED CULTIVATION OF VEGETABLE CROPS

Protected cultivation technology for vegetable crops - Hi-tech protected cultivation techniques for tomato, capsicum nursery, cucumber, gherkins, strawberry and melons – integrated pest and disease management – post harvest handling.

PART - A

| PART - A | | | | |
|----------|---|-------|---------------|--|
| Q.NO | QUESTIONS | BT | COMPETENCE | |
| | | LEVEL | | |
| 1. | List out the crops that can be grown under protected cultivation. | BT-1 | Remembering | |
| 2. | How the crops selected to be grown in greenhouse? | BT-2 | Understanding | |
| 3. | What are the two types of training in tomato? | BT-1 | Remembering | |
| 4. | What are the common pests observed in Greenhouse? | BT-1 | Remembering | |
| 5. | Define the term post - harvest handling. | BT-2 | Understanding | |
| 6. | What are the symptoms of fruit borer? | BT-1 | Remembering | |
| 7. | What is Gherkin? | BT-1 | Remembering | |
| 8. | Illustrate the importance of pest and disease management. | BT-2 | Understanding | |
| 9. | Write about the viral diseases in cucumber. | BT-1 | Remembering | |
| 10. | Illustrate the maturity indices of cucumber | BT-2 | Understanding | |
| 11. | How will you manage late blight? | BT-1 | Remembering | |
| 12. | Give two examples of varieties of melons and strawberry. | BT-1 | Remembering | |
| 13. | Define the term Metaxenia. | BT-1 | Remembering | |
| 14. | How will you manage Greenhouse aphids? | BT-1 | Remembering | |
| 15. | Give any two examples of disease with respect to tomato. | BT-2 | Understanding | |
| 16. | Give the varieties and hybrids of cucumber. | BT-1 | Remembering | |
| 17. | List out the pests of greenhouse capsicum. | BT-1 | Remembering | |
| 18. | Define deleafing? Why it is followed in capsicum? | BT-1 | Remembering | |
| 19. | When the greenhouse tomato is harvested? | BT-1 | Remembering | |
| 20. | List out the varieties of capsicum. | BT-1 | Remembering | |
| 21. | List out the institutions involving in research on Horticulture | BT-1 | Remembering | |
| | crops. | | | |
| 22. | State the term Crooking physiological disorder in cucumber. | BT-2 | Understanding | |
| 23. | Differentiate training and trellising. | BT-2 | Understanding | |
| 24. | Why the soil solarization should be done in greenhouse? | BT-1 | Remembering | |
| 25. | Compare topping and trimming. | BT-2 | Understanding | |

PART – B

| | TAKI D | | | |
|------|--|-------------|------------|--|
| Q.NO | QUESTIONS | BT LEVEL | COMPETENCE | |
| 1. | Explain the need for protected cultivation of tomato. | BT-3 | Applying | |
| 2. | Elaborate the post-harvest handling of greenhouse crops. | BT-4 | Analysing | |
| 3. | Enumerate about the viral disease management in melons. | BT-4 | Analysing | |
| 4. | Describe about capsicum cultivation. | BT-3 | Applying | |
| | Detail note on important physiological disorders in gherkins and their management. | BT-3 | Applying | |
| 6. | Compare yield and fertilizer application of tomato, capsicum and strawberry. | BT-4 | Analysing | |

| 7. | Brief about integrated pest and disease management in tomato. | BT-3 | Applying |
|-----|---|------|-----------|
| 8. | Describe about the disease management in Tomato. | BT-4 | Analysing |
| 9. | Criticize on the pest and disease management in cucumber. | BT-4 | Analysing |
| 10. | Briefly criticize the harvesting and post harvest techniques for Tomato. | BT-4 | Analysing |
| 11. | Discuss about the drawbacks of protected cultivation of vegetable crops. | BT-3 | Applying |
| 12. | List out the varieties and hybrids in Cucumber, Capsicum and Tomato. | BT-4 | Analysing |
| 13. | Discuss about the fertigation system to be followed in Melon. | BT-3 | Applying |
| 14. | Differentiate nutrient requirement for different crops. | BT-3 | Applying |
| 15. | What are the post harvest handling techniques to be followed in Strawberry? | BT-4 | Analysing |
| 16. | Brief about nursery management in strawberry. | BT-3 | Applying |
| 17. | Compare the protected cultivation practices of gherkin and cucumber | BT-4 | Analysing |

PART-C

| TIMI C | | | |
|--------|--|-------------|------------|
| Q.NO | QUESTIONS NGINEER | BT LEVEL | COMPETENCE |
| | | | |
| 1. | Compare various protected cultivation technology. | BT-4 | Analysing |
| 2. | Write in detail about the post harvest handling in Cucumber, | BT-3 | Applying |
| | Gherkins and Melons. | | |
| 3. | Discuss in detail about Strawberry hitech protected cultivation. | BT-4 | Analysing |
| 4. | Explain about gherkin under protected cultivation. | BT-4 | Analysing |
| 5. | Elaborate Tomato cultivation under greenhouse technology. | BT-3 | Applying |
| | | | |

UNIT-III: PROTECTED CULTIVATION OF FLOWER CROPS

Protected cultivation technology for flower crops - Hi-tech protected cultivation of cut roses, cut chrysanthemum, carnation, gerbera, asiatic lilies, anthurium, orchids, cut foliages and fillers – integrated pest and disease management – postharvest handling.

PART - A

| Q.NO | QUESTIONS | BT | COMPETENCE |
|------|--|-------|-------------------|
| | | LEVEL | |
| 1. | What are the various growing systems of flower crops? | BT-1 | Remembering |
| 2. | Explain staking of chrysanthamum. | BT-2 | Understanding |
| 3. | What are the advantages of growing flower crops in greenhouse? | BT-1 | Remembering |
| 4. | Describe post harvest handling of orchid. | BT-1 | Remembering |
| 5. | Explain the term Arka and Pusa. | BT-2 | Understanding |
| 6. | List out varieties and hybrids of cut rose. | BT-1 | Remembering |
| 7. | Compare the asiatic lilies and oriental lilies. | BT-2 | Understanding |
| 8. | What is filler material in cut foliage? | BT-1 | Remembering |
| 9. | What are the soil requirement for cutrose cultivation? | BT-1 | Remembering |

| 10. | What is deshooting? | BT-2 | Understanding |
|-----|--|------|---------------|
| 11. | List out the countries involved in cutflower production. | BT-1 | Remembering |
| 12. | Define the term disbudding. | BT-1 | Remembering |
| 13. | List out the institutions involved in cutflowers production. | BT-1 | Remembering |
| 14. | Explain about the package of carnations. | BT-2 | Understanding |
| 15. | State the term deflowering. | BT-1 | Remembering |
| 16. | How the beds are fumigated? | BT-1 | Remembering |
| 17. | What are the harvesting indices of anthurium? | BT-1 | Remembering |
| 18. | How the Gerbera cutflower is propagated? | BT-1 | Remembering |
| 19. | Differentiate standard and spray type carnations? | BT-2 | Understanding |
| 20. | Compare deflowering and deshooting. | BT-2 | Understanding |
| 21. | List out the preservatives used in flower crops. | BT-1 | Remembering |
| 22. | How the cutflowers will be preserved? | BT-1 | Remembering |
| 23. | Define the term pinching. | BT-1 | Remembering |
| 24. | Distinguish single pinching and double pinching. | BT-2 | Understanding |
| 25. | What are the types of Pinching? | BT-2 | Understanding |

PART – B

| | MAI | BT | |
|------|--|-------|------------|
| Q.NO | QUESTIONS | LEVEL | COMPETENCE |
| 1. | Brief about Protected cultivation of f <mark>lower crops in T</mark> amil Nadu. | BT-4 | Analysing |
| 2. | Elaborate the desirable characters for the cutflower production? | BT-3 | Applying |
| 3. | Write short notes on packaging of Anthurium. | BT-4 | Analysing |
| 4. | What are the major pests of Gerbera under protected cultivation and discuss about the pest management? | BT-4 | Analysing |
| 5. | Detail about soil, spacing, nutrition, irrigation and propagation methods of Chrysanthamum. | BT-3 | Applying |
| 6. | Write short notes on Integrated pest management for Cutflowers. | BT-4 | Analysing |
| 7. | Elaborate the post harvest handling of cut flowers | BT-3 | Applying |
| 8. | Explain about soil, spacing, irrigation and propagation methods of Orchids. | BT-4 | Analysing |
| 9. | Compare and contrast oriental and Asiatic lillies. | BT-4 | Analysing |
| 10. | Describe pest management in cutflowers. | BT-4 | Analysing |
| 11. | Describe about mother shoot bending. | BT-3 | Applying |
| 12. | Explain growing medium requirement for flower crops under protected cultivation. | BT-4 | Analysing |
| 13. | Discuss the special horticultural practices followed in rose. | BT-3 | Applying |
| 14. | Explain about soil, spacing, irrigation and propagation methods of Carnations. | BT-4 | Analysing |
| 15. | Write about the post harvest handling of anthurium and orchids. | BT-3 | Applying |
| 16. | List out the physiological disorders for cutflowers and explain about the bushiness and stem break. | BT-3 | Applying |
| 17. | Explain in detail about the nutrient deficiency in cut flowers. | BT-4 | Analysing |

PART-C

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|------|--|-------|-------------------|--|--|
| Q.NO | QUESTIONS | BT | COMPETENCE | | |
| | | LEVEL | | | |
| 1. | Describe in detail about Cut Rose cultivation. | BT-3 | Applying | | |
| | Enumerate about the integrated pest and disease management in Chrysanthamum cultivation? | BT-4 | Analysing | | |
| 3. | Elaborate carnation cultivation under Greenhouses. | BT-4 | Analysing | | |
| 4. | Explain the post harvest handling of cutflowers. | BT-3 | Applying | | |
| | Detail the special horticultural practices of cutflowers to grow under greenhouse. | BT-3 | Applying | | |

UNIT-IV: PRECISION FARMING TECHNIQUES

Concept and introduction of precision farming – Importance, definition, principles and concepts – Role of GIS and GPS - Mobile mapping system and its application in precision farming – design, layout and installation of drip and fertigation – georeferencing and photometric correction – Sensors for information gathering – UAV - geostatistics – robotics in horticulture - postharvest process management (PPM) – remote sensing

PART – A

| | IARI - A | BT | |
|------|---|-------|---------------|
| Q.NO | QUESTIONS SRM | LEVEL | COMPETENCE |
| 1 | Define precision farming. | BT-1 | Remembering |
| 2 | State the term geostatistics. | BT-1 | Remembering |
| 3 | List out the sensors used for information gathering. | BT-1 | Remembering |
| 4 | What are the merits of precision farming? | BT-2 | Understanding |
| 5 | Give the components of mobile mapping. | BT-2 | Understanding |
| 6 | What are the types of remote sensing in agriculture? | BT-1 | Remembering |
| 7 | List out the tools of precision farming. | BT-1 | Remembering |
| 8 | What is mobile mapping? | BT-2 | Understanding |
| 9 | Define GPS and its purpose in precision farming. | BT-2 | Understanding |
| 10 | Write the role of Unmanned Aerial Vehicle in Precision farming. | BT-2 | Understanding |
| 11 | Define Robotics. | BT-1 | Remembering |
| 12 | List the types of robots used in agriculture. | BT-1 | Remembering |
| 13 | Write the merits of robotics in agriculture. | BT-1 | Remembering |
| 14 | How the robotics can be applied for harvesting crops? | BT-1 | Remembering |
| 15 | List out the various technologies used in precision farming. | BT-1 | Remembering |
| 16 | Define geostatistics? | BT-1 | Remembering |
| 17 | What is the role of georeferencing in agriculture? | BT-2 | Understanding |
| 18 | Differentiate Drip irrigation and Sprinkler irrigation. | BT-2 | Understanding |
| 19 | Describe the types of Unmanned Aerial Vehicle. | BT-1 | Remembering |
| 20 | Give the importance of georeferencing. | BT-2 | Understanding |
| 21 | Define remote sensing. | BT-1 | Remembering |
| 22 | What are the components of mobile mapping system? | BT-1 | Remembering |

| 23 | Differentiate GIS and GPS | BT-2 | Understanding |
|----|--|------|---------------|
| 24 | What are role of Drones in agriculture? | BT-1 | Remembering |
| 25 | List the institutions with its location involved in remote sensing | BT-1 | Remembering |

PART B

| Q.NO | QUESTIONS | BT | COMPETENCE |
|------|--|-------|------------|
| Q.NO | QUESTIONS | | COMPETENCE |
| | | LEVEL | |
| 1 | Detail role GIS and GPS in Precision farming. | BT-4 | Analysing |
| 2 | Elaborate about the tools of precision farming. | BT-3 | Applying |
| 3 | What is UAV? Explain it types with its advantages and | BT-3 | Applying |
| | disadvantages. | | |
| 4 | Give detail about different robots used in agriculture purposes. | BT-3 | Applying |
| 5 | Distinguish GIS and GPS system. | BT-4 | Analysing |
| 6 | Elaborate Remote Sensing application in Precision farming. | BT-3 | Applying |
| 7 | Brief about Post harvest Process Management (PPM). | BT-4 | Analysing |
| 8 | What is mobile mapping? How it is applied in the field of | BT-3 | Applying |
| | agriculture? | | |
| 9 | Illustrate the various sensors application in precision farming. | BT-3 | Applying |
| 10 | Enumerate the advantages and disadvantages of photometric | BT-4 | Analysing |
| | correction. | | |
| 11 | Criticize the process of information gathering by using sensors? | BT-4 | Analysing |
| 12 | What is UAV? How it will make difference in traditional | BT-3 | Applying |
| | agriculture? | | |
| 13 | Distinguish Geostatistics and Georeferncing | BT-4 | Analysing |
| 14 | How the robotics changed conventional farming? | BT-3 | Applying |
| 15 | Brief about advantages of geostatistics. | BT-4 | Analysing |
| 16 | Define microirrigation and explain it with advantages and | BT-3 | Applying |
| | disadvantages. | | |
| 17 | Discuss the role of IIRS in remote sensing in agriculture | BT-4 | Analysing |

PART – C

| Q.NO | QUESTIONS | BT | COMPETENCE |
|------|---|-------|------------|
| | | LEVEL | |
| 1 | Detail precision farming importance, principle and concepts. | BT-3 | Applying |
| 2 | Elaborate the role of robotics in agriculture with merits and demerits. | BT-3 | Applying |
| 3 | Explain in detail about Drone technology in precision farming. | BT-4 | Analysing |
| 4. | Brief about sensors used for various agriculture operations. | BT-3 | Applying |
| 5. | Define Geostatistics with its advantages and disadvantages. | BT-4 | Analysing |

UNIT-V: PRECISION FARMING OF HORTICULTURAL CROPS

Precision farming techniques for horticultural crops - Precision farming techniques for tomato, chilli, bhendi, bitter gourd, bottle gourd, cauliflower, cabbage, grapes, banana, rose, jasmine, chrysanthemum, marigold, tuberose, china aster, turmeric, coriander, coleus and gloriosa.

PART – A

| Q.NO | QUESTIONS | BT | COMPETENCE |
|------|--|-------|---------------|
| | | LEVEL | |
| 1 | Write seed rate requirement for tomato, coriander, and bhendi. | BT-1 | Remembering |
| 2 | List the steps involved in precision farming. | BT-1 | Remembering |
| 3 | What are the growth regulators? | BT-1 | Remembering |
| 4 | Write about the little leaf diseases of chilli. | BT-2 | Understanding |
| 5 | How yellow vein mosaic in bhendi can be treated? | BT-1 | Remembering |
| 6 | Brief about sowing and season of bitter gourd. | BT-2 | Understanding |
| 7 | In what manner, nursery raising can be done in bottle gourd? | BT-1 | Remembering |
| 8 | Describe micronutrient spray in tomato. GINEER | BT-2 | Understanding |
| 9 | Write the role of protray. | BT-2 | Understanding |
| 10 | Brief about field preparation of bhendi. | BT-2 | Understanding |
| 11 | Give the soil and spacing requirement of chilli. | BT-1 | Remembering |
| 12 | Write short notes on protray in Caul <mark>iflower.</mark> | BT-2 | Understanding |
| 13 | List out the various diseases occurring in bittergourd. | BT-1 | Remembering |
| 14 | How are quality seedlings of bitter gourd produced? | BT-1 | Remembering |
| 15 | Explain about the diamondback moth in Cauliflower? | BT-2 | Understanding |
| 16 | Which is the growing medium used for cabbage? | BT-1 | Remembering |
| 17 | Explain about the propping of banana. | BT-1 | Remembering |
| 18 | List out the juice varieties of grapes. | BT-1 | Remembering |
| 19 | What do you understand about pretreatment of suckers? | BT-1 | Remembering |
| 20 | How will you manage weeds in tuberose? | BT-1 | Remembering |
| 21 | List out pest and diseaeses of Gloriosa. | BT-1 | Remembering |
| 22 | Write about the fertigation system followed in Jasmine. | BT-2 | Understanding |
| 23 | What are the special horticultural practices in flower crops? | BT-1 | Remembering |
| 24 | Give some of the varieties in Grapes and Rose. | BT-2 | Understanding |
| 25 | Explain the rhizome treatment of Turmeric. | BT-2 | Understanding |

PART-B

| Q.NO | QUESTIONS | BT | COMPETENCE |
|------|---|-------|------------|
| | | LEVEL | |
| 1 | Discuss the nursery preparation and fertigation system in tomato. | BT-4 | Analysing |
| 2 | Detail the factors that are required to grow bhendi. | BT-4 | Analysing |
| 3 | Write short notes on manuring and IPM of chilli. | BT-4 | Analysing |
| 4 | Elaborate bottle gourd pest and disease management. | BT-3 | Applying |
| 5 | Brief about nutritional requirement of Cabbage. | BT-4 | Analysing |

| 6 | Detail about the training and pruning operation in grapes. | BT-3 | Applying |
|----|---|------|-----------|
| 7 | Explain precision production technology of jasmine. | BT-3 | Applying |
| 8 | Discuss the practices to be carried out for rose cultivation. | BT-4 | Analysing |
| 9 | Detail note on China Aster cultivation process. | BT-4 | Analysing |
| 10 | Explain the precision cultivation of chrysanthemum and marigold. | BT-3 | Applying |
| 11 | Write short notes on IPM for cauliflower. | BT-4 | Analysing |
| 12 | Detail coriander cultivation practices. | BT-3 | Applying |
| 13 | Describe precision production technology of gloriosa cultivation | BT-4 | Analysing |
| 14 | Explain about bittergourd cultivation practices under greenhouse. | BT-3 | Applying |
| 15 | Write in detail about the pest and diseases of chilli and bhendi. | BT-4 | Analysing |
| 16 | Discuss about the propping and bunching system followed in | BT-3 | Applying |
| | banana. | | |
| 17 | Elaborate the precision farming of Turmeric. | BT-4 | Analysing |

PART - C

| Q.NO | QUESTIONS | BT LEVEL | COMPETENCE | |
|------|---|-------------|------------|--|
| 1. | Brief about precision farming techniques of Chilli. | BT-4 | Analysing | |
| 2. | Detail special viticultural practices of grapes.NEED | BT-3 | Applying | |
| 3. | How will you grow cauliflower under protected cultivation? | BT-3 | Applying | |
| | Explain the field operations required for growing turmeric under precision farming. | BT-4 | Analysing | |
| | Describe the precision farming techniques to be followed for the cultivation of Banana. | BT-4 | Analysing | |