

BOTANY - IV

III Year

UNIT - I

Short Answer Questions:

1. Osmosis
2. Water potential
3. Ascent of sap
4. Macronutrients
5. Micronutrients
6. Enzyme kinetics
7. Enzyme action
8. Factors effecting on enzyme action?
9. Red Drop
10. Emerson enhancement effect?
11. Ca cycle
12. Cam cycle
13. Photo respiration
14. Source in relationship
15. Photophosphorylation

UNIT - II

Short Questions

1. Fermentation
2. Respiratory quotient (RQ)
3. Nitrate reduction
4. Reductive amination (GS) and trans amination (GOGAT)
5. Auxins
6. Gibballins
7. Cytokinnins
8. Absicic acid <ABA>
9. Brassinosteriods

10. Ethylene
11. Photo peroidisum
12. Phytochromes
13. Aerobic respiration

UNIT – III

1. Sterilization techniques
2. MS-Media
3. Ex-Plant
4. Callus
5. Somatic hybrids
6. Somatic cybrids
7. Synthetic seeds
8. Secondary metabolites

(or)

BIO-TECHNOLOGY

1. Scope of Bio-technology
2. Vectors
3. Gene cloning?
4. Transgenic plants

UNIT – IV

1. Seeds Banks
2. Seed viability
3. Genetic erosion
4. Seed testing and seed certification

(or)

5. Bonsie
6. Land scaping
7. Green house
8. Poly house
9. Mist chamber
10. Shade nets
11. Micro irrigation system

12. Role of plant growth in Horticulture

UNIT - I

LONG Questions

1. What is transpiration? Describe the structures and movement of stomata?
2. Describe the mechanism of absorption of mineral ions into the plant body?
3. Give an account on calvin cycle – C₃ cycle dark reaction?
4. Give an account on light reaction?

UNIT - II

1. Give an account on glycolysis – EMP dathway?
2. Give an account on kreh's cycle – TCA Cycle?
3. Give an account on electron transportation in the respiration (or) oxidative phosphorylation?
4. Give an account on pentose phosphate pathway?
5. Give an account on Biological fixation on the nitrogen?

UNIT - III

1. Give an account on single cell culture?
2. Give an account on protein synthesis?
3. Give an account on protoplast culture?
4. Mention various applications of plant tissue culture con it's significance?
5. Give an account on RDNA technology?
6. Give an account on gene cloning?

UNIT - IV

1. Write an essay on causes of breaking on seed cormancy?
2. What is seed viability describe various factors effecting on seed viability?

(or) (Horticulture)

3. What is an ornamental plants describe the process of it's cultivation?
4. Given an account on vegetable gardening? And it's cultivation?
5. What is floriculture potential and mention it's trait in India?
6. What is vegetative reproduction con give an account on vegetative reproduction?