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800BO205 BOTANY II

Max. Marks: 100

1. a) Compose a note on senescence: (Types, Physiology, Importance). (10 Marks)
b) Write an account on the different types of seed germination. (5 Marks)
c) Briefly explain Micropropagation. (5 Marks)
2. a) What is the Significance of crossing over? (4 Marks)
b) Compose a detailed note on the Xylem tissues. (8 Marks)
c) Write a detailed account on Characteristics of genetic code and Central dogma of molecular biology. (8 Marks)
3. a) Discuss the Ganong's light screen experiment. (7 Marks)
b) Write a note on insectivorous plants. (7 Marks)
c) Briefly explain what Phytohormones are. (3 Marks)
d) How does abscisic acid influence plant physiology? (3 Marks)
4. a) Explain the Basic techniques of genetic engineering. (5 Marks)
b) What are the Practical application of genetic transformation? (5 Marks)
c) Suggest the uses of single cell protein. (5 Marks)
d) Explain Morphogenesis in tissue culture technique. (5 Marks)
5. a) What are the characteristics of a Pure line selection in plant breeding experiments?
(6 Marks)
b) Discuss Mycorrhiza as biofertilizer. (6 Marks)
c) Write an account on Plant diseases in rice – *Oryza sativa*. (8 Marks)

6.
 - a) Write a note on the Role of biofertilizers and their Benefits. (5 Marks)
 - b) Write a discussion on sustained agriculture. (5 Marks)
 - c) Explain Bio-patent. (5 Marks)
 - d) Compose a note on Biological warfare. (5 Marks)

7.
 - a) Explain the technique of Gene transfer in plants. (8 Marks)
 - b) Outline the benefits from release of genetically modified microorganisms into the environment. (4 Marks)
 - c) Compose a note on Protoplasmic fusion. (4 Marks)
 - d) What are Applications of plant tissue culture? (4 Marks)