

QP CODE 2128000501

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DMI-ST. EUGENE UNIVERSITY

ZAMBIA

DEGREE EXAMINATION – DECEMBER 2023

Semester: II

800BO205 BOTANY II

Time: 3:00 Hours

Max. Marks: 100

Answer any FIVE Questions (5 x 20 = 100 Marks)

1. a) Write a note on Abscission. (5 Marks)
b) Briefly discuss Micro propagation. (5 Marks)
c) Describe in detail, the Types, Physiology and Importance. (10 Marks)
2. a) Write a note on the Characteristics of genetic code and Central dogma of molecular biology. (5 Marks)
b) Write an account on Function and Replication of DNA. (5 Marks)
c) Discuss the Primary structure of a monocotyledonous root -Maize root. (5 Marks)
d) How does abscisic acid influence plant physiology? (5 Marks)
3. a) Discuss briefly the Plant growth substances. (5 Marks)
b) Briefly explain parasitic plants. (5 Marks)
c) Write a detailed account on plant mode of nutrition. (10 Marks)
4. a) Clearly explain what Transgenic (modified) plants are. (5 Marks)
b) Discuss the basic techniques of plant tissue culture. (5 Marks)
c) Compose a note on Single cell protein. (5 Marks)
d) What are some of the most common applications of plant tissue culture? (5 Marks)
5. a) Write a detailed account on some of the important medicinal plants and their products. (10 Marks)
b) Compose a note on Biological warfare. (5 Marks)
c) Mention some major aspects of plant breeding. (5 Marks)
6. a) Write an account on the different types of seed germination. (5 Marks)
b) Write a detailed note on Micro propagation and clearly state its types. (10 Marks)
c) What are tunicated bulbs? Explain and give examples. (5 Marks)

7. a) What are the Physiological effects of gibberellin? **(5 Marks)**
- b) Write a detailed account on auxins and their physiological effects. **(10 Marks)**
- c) Discuss in detail photoperiodism and vernalization. **(5 Marks)**