

(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2023 ONLY)

23UZY2A2

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI
END-OF-SEMESTER EXAMINATIONS: MAY-2024
COURSE NAME: B.Sc.-ZOOLOGY
SEMESTER-II
MAXIMUM MARKS: 75
TIME : 3 HOURS

PART - III

ANCILLARY BOTANY PAPER

SECTION - A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS. (K1)
MULTIPLE CHOICE QUESTIONS.

1. The fruit type present in Fabaceae is _____.
a) Legume b) Pome c) Berry d) Hesperidium
2. Inter-nodal elongation is induced by _____ hormone
a) GA₃ b) Auxin c) Cytokinin d) ABA
3. Pomology refers to the study of _____.
a) Fruits b) Vegetables c) Flower d) Leaves
4. The alkaloid Vinblastin is extracted from the plant _____.
a) *Vinca* b) *Pisum* c) *Solanum* d) *Ixora*
5. Haploid plants are developed from the culture of _____.
a) Anther b) Embryo c) Leaf disc d) Shoot apex

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. (K2)

6. Define Phyllotaxy
7. Comment on Hypanthium
8. State the functions of ABA
9. Mention any two Plant drugs
10. Define Totipotancy

SECTION – B (5 X 5 = 25 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)

11. a) Describe the general characters of Rutaceae
(OR)
b) Illustrate inflorescence types present in Lamiaceae
- 12.a) Expound the mechanisms of light reactions.
(OR)
b) Write the physiological role of auxins

(CONTD.....2)

- 13.a) Enumerate the methods employed for seed propagation.
(OR)
b) Elucidate the asexual reproduction of plants
- 14.a) State the methods and application of pharmacognosy
(OR)
b) Discuss organized and unorganized drugs with suitable example.
- 15.a) Describe the principle and application of cryopreservation techniques.
(OR)
b) Explicit the BT cotton development and their significance.

SECTION - C**(5 X 8 = 40 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K4 (Or) K5)**

16. a) Present the general characters of the family Annonaceae
(OR)
b) Describe the salient features of the family Rubiaceae
17. a) With suitable flowchart explain the sequential reactions of C₃ cycle.
(OR)
b) Define PGRS. Write the major classes of phytohormones and their functions
18. a) Explain various horticultural practices used in plant propagation.
(OR)
b) Elucidate the art of bonsai and its cultivation methods
19. a) State the plant source, extraction methods and medicinal uses of any five drugs.
(OR)
b) Bring out the classification of crude drugs.
20. a) Critically enumerate various stages of micropropagation. Add a note on its pros and cons.
(OR)
b) What are transgenic plants? Explain various methods applied for its development.
