

(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2021-2024 ONLY)

21UZY2A2

REG.NO. :

**N.G.M. COLLEGE (AUTONOMOUS) : POLLACHI**  
**END-OF-SEMESTER EXAMINATIONS : JULY-2022**

**B.Sc.-ZOOLOGY**

**MAXIMUM MARKS: 70**

**SEMESTER: II**

**TIME : 3 HOURS**

**PART - III**

**ANCILLARY BOTANY PAPER-II**

**SECTION - A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS.**

**(K1)**

1. Custard apple is the name for \_\_\_\_\_.  
a. *Annona squamosa* b. *Annona cherimola* c. *Annona muricata* d. *Annona reticulata*
2. Auxin is synthesized mainly in \_\_\_\_\_.  
a. Root b. Meristematic region of the plant c. Shoots d. None of the above
3. International Institute of Horticulture is situated at \_\_\_\_\_.  
a. Brazil b. Italy c. USA d. None of the above
4. Dried latex of the drug is used, except \_\_\_\_\_.  
a. Opium b. Gatta parcha c. Papain d. Balsam
5. BT cotton is a \_\_\_\_\_.  
a. Cloned plant b. Transgenic plant c. Hybrid plant d. Mutated plant

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

**(K2)**

6. Differentiate between Disc floret and Ray floret.
7. What are NIF Genes?
8. Define hydroponics.
9. Define Adulteration.
10. Define Cryopreservation.

**SECTION – B**

**(5 X 4 = 20 MARKS)**

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

11. a) Explain the economic importance of Euphorbiaceae.  
(OR)  
b) Describe the floral characters of Amaranthaceae.

- 12.a) Write the mechanism of Glycolysis and add its significance.

(OR)

- b) Briefly explain the role of Gibberellic acid.

**(CONTD.....2)**

13.a) Comment on types of cutting methods used to propagate the plants.

(OR)

b) Write an elaborate account on layering.

14.a) Differentiate between organized and organized drugs.

(OR)

b) Explain the adulteration of plant drugs.

15.a) Write short notes on totipotency

(OR)

b) Explain the synthetic seeds

**SECTION - C**

**(4 X 10 = 40 MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS**

**(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE**

**QUESTIONS (FROM Qn. No : 17 to 21)**

**(K4 (Or) K5)**

16. Briefly describe the family Asteraceae with suitable diagrams.

17. Illustrate the Krebs's cycle.

18. Write an essay on seed propagation.

19. Describe the vegetative and floral characters of Annonaceae.

20. Briefly explain the plant sources of drugs.

21. Write an essay on transgenic plants.

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