

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2024 ONLY)**

24UZY2A2

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : MAY-2025

B.Sc. -BOTANY

MAXIMUM MARKS: 75

SEMESTER: II

TIME : 3 HOURS

PART - III

ALLIED BOTANY PAPER

(TAXONOMY OF ANGIOSPERMS, PHYSIOLOGY, HORTICULTURE, PHARMACOGNOSY & PLANT BIOTECHNOLOGY)
SECTION – A **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. The arrangement of leaves on stem is called _____.
 - (a) Peduncle
 - (b) Phyllotaxy
 - (c) Inflorescence
 - (d) Multicosate
2. The first stable compound of Dark reaction is _____.
 - (a) RuBP
 - (b) 3PGA
 - (c) Sucrose
 - (d) Xylulose-5-Phosphate
3. Which one is called as Japanese art?
 - (a) Air layering
 - (b) Grafting
 - (c) Bonsai
 - (d) Hydroponics
4. Intentional addition of a foreign substance in to the drugs is
 - (a) Crude drug
 - (b) Adulteration
 - (c) Synthetic drug
 - (d) all of the above
5. Example for haploid production
 - (a) Anther
 - (b) Pollen
 - (c) b only
 - (d) a & b

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

6. Raceme Inflorescence

7. Photophosphorylation

8. Define Layering

9. Define Pharmacognosy

10. Totipotency

SECTION – B

(5 X 5 = 25 MARKS)

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

(K3)

11. a) Write the floral characters of the family Rubiaceae with suitable diagrams
(OR)
b) Illustrate the floral characteristics of the family Poaceae with suitable sketches.
12. a) Write the differences between light and dark reaction
(OR)
b) Explain the structure and role of auxin in plant growth

(CONTD 2)

13. a) Comment of grafting and its importance of plant propagation
(OR)
b) Describe the outline methods involved in Bonsai techniques.
14. a) Write a short notes on organized drugs.
(OR)
b) Comment on adulteration in drugs.
15. a) Briefly explain the synthetic seed technology
(OR)
b) Discuss about the Golden Rice and its importance

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.**
(K4 (Or) K5)

16. a) Illustrate the floral Characters of the family Annonaceae with suitable diagrams
(OR)
b) Discuss the economic importance of the family Poaceae.
17. a) Elaborate the mechanism of light reaction in plants.
(OR)
b) Execute the steps involved in the Dark reaction.
18. a) Describe the different types of layering methods in plants with suitable examples.
(OR)
b) Give an account on hydroponics.
19. a) Write any five drug yielding plants with its scientific name, family and drug name
(OR)
b) Discuss the classification of drugs.
20. a) Give an outline methods involved in the plant tissue culture
(OR)
b) Elaborate the gene transfer mechanism in Bt cotton.
