

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

23PBY206

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2024

PLANT PHYSIOLOGY

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

K1

SECTION – B

(5 X 5 = 25 MARKS)

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

11. a) Describe the osmotic pressure.
(OR)
b) Write about Transpiration & its types.

12. a) What are the general functions of essential elements in plants?
(OR)
b) What is the role of Nitrogen & Phosphorus?
(CONTD.....2)

13. a) Describe the photosynthetic apparatus.
(OR)
b) Write short notes on Photosynthetic units.

14. a) Describe the mechanism of Anaerobic Respiration.
(OR)
b) Describe the biological nitrogen fixation.

15. a) Write about Photoperiodism.
(OR)
b) Write about Phytochrome.

SECTION – C**(5 X 8 = 40 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. K3**

16. a) Explain the factors affecting transpiration.
(OR)
b) Describe the mechanism of stomatal transpiration.

17.a) Write short notes on mineral deficiency in plants
(OR)
b) Explain the Trace elements & Tracer Elements.

18. a) Explain C₃ cycle.
(OR)
b) Explain C₄ cycle.

19.a) Write about TCA cycle?
(OR)
b) Give an account of the nitrogen cycle in nature?

20. a) Write an essay on vernalization.
(OR)
b) Explain the biological clock.

ETHICAL PAPER