(NO. OF PAGES: 2)

(FOR THE CANDIDATES ADMITTED DURING THE ACADEMIC YEAR 2025 ONLY)

25UZY1A1

REG.NO. :

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

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2025

B.Sc.-ZOOLOGY **MAXIMUM MARKS: 75**

SEMESTER: I **TIME : 3 HOURS**

PART - III

GENERIC LECTIVE- I ALLIED: BOTANY PAPER - I
(PLANT DIVERSITY, ANATOMY, EMBRYOLOGY AND PLANT PATHOLOGY)

SECTION – A (10 X 1 = 10 MARKS)

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

1. Identify the group to which *Nostoc* belongs:
   a) Cyanobacteria b) Brown algae c) Red algae d) Green algae

2. Recognize the plant commonly called Sago palm:
   a) Conifer b) Cycas c) Fern d) Moss

3. Name the tissue that conducts water in plants:
   a) Phloem b) Xylem c) Parenchyma d) Collenchyma

4. Recall the number of nuclei in Polygonum type embryo sac:
   a) 4 b) 8 c) 12 d) 16

5. Identify the causal organism of citrus canker:
   a) Virus b) Fungus c) Bacterium d) Protozoa

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

6. The algal partner in lichen is called _____
7. The dominant phase of *Riccia* is the _____
8. In *Nerium* leaf, the mesophyll is differentiated into _____ and _____
9. The process in which one male gamete fuses with egg and another with polar nuclei is called _____
10. Red rot of sugarcane is caused by the fungus _____.

SECTION – B (5 X 5 = 25 MARKS)

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

11. a) Explain the economic importance of *Sargassum*.

(OR)

b) Illustrate the structure and importance of *Mucor*.

12. a) Write a note on the Morphology of *Lycopodium*.

(OR)

b) Discuss the Morphology and economic importance of *Cycas*.

13. a) Explain the structure and functions of simple tissues.

(OR)

b) Explain the structure and functions of Xylem tissue.

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14. a) Describe the structure of anther.

(**OR)**

b) Explain the nuclear type of endosperm.

15. a) List and explain the symptoms and control measures of TMV.

(**OR)**

b) Summarize the symptoms casual organism and control measures of citrus canker.

SECTION – C (5 X 8 = 40 MARKS)

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

(K4 (Or) K5)

16. a) Analyze the structure and life history of *Nostoc*. K4

(**OR)**

b) Examine the structure and economic importance of lichens. K4

17. a) Elaborate the life cycle of *Riccia*. K4

(**OR)**

b) Describe the reproduction of *Lycopodium*. K4

18. a) Illustrate and analyze the internal structure of *Zea mays* root. K4

(**OR)**

b) Explain the primary structure of dicot stem (*Tridax*). K5

19. a) Interpret the structure and development of Polygonum type embryo sac. K5

(**OR)**

b) Assess the process of double fertilization and triple fusion. K4

20. a) Evaluate the symptoms, causal organism, and control of red rot of sugarcane. K4

(**OR)**

b) Classify and analyze plant diseases with examples. K4

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