

(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2022 only)

22UZY1A1

REG.NO.:

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI  
END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022**  
**COURSE NAME: B.Sc.-ZOOLOGY** **MAXIMUM MARKS: 50**  
**SEMESTER: I** **TIME : 3 HOURS**

**PART – III**  
**ANCILLARY BOTANY PAPER – I**  
**(PLANT DIVERSITY, ANATOMY, EMBRYOLOGY AND PLANT PATHOLOGY)**

**SECTION – A (10 X 1 = 10 MARKS)**

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

1. Which one of the algae has Cystocarp as the fruit body?  
a) *Oedogonium*      b) *Diatom*      c) *Polysiphonia*      d) *Chlorella*
2. Choose the algae which is present in the coralloid root of *Cycas* \_\_\_\_\_.  
a) *Anabaena*      b) *Oedogonium*      c) *Diatom*      d) *Polysiphonia*
3. In monocot root xylem is \_\_\_\_\_.  
a) Mesarch      b) Exarch      c) Endarch      d) Both B & C
4. Number of nuclei present in *Polygonum* embryo sac is \_\_\_\_\_.  
a) 8      b) 10      c) 6      d) 12
5. Citrus canker is caused by \_\_\_\_\_.  
a) Virus      b) Fungus      c) Bacteria      d) Both B & C

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

6. What are Gills?
7. Define plectostele.
8. Define phellogen.
9. Define parthenocarpy.
10. Comment on TMV.

**SECTION – B (5 X 3 = 15 MARKS)**

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

11. a) Explain the structure of *Diatom* with neatly labeled diagram.  
**(OR)**  
b) Write short notes on structure of *Penicillium*.
12. a) With neat labeled the diagram explain the thallus of *Riccia*.  
**(OR)**  
b) Draw and label diagram of *Cycas* leaflet.

(CONTD .... 2)

13. a) Describe any one simple permanent tissue you have studied.

**(OR)**

b) Describe the vascular bundle of *Tridax* stem.

14. a) Comment on triple fusion.

**(OR)**

b) With diagram, explain the structure of dicot embryo.

15. a) Write the causal organism and symptoms of Red rot of sugarcane.

**(OR)**

b) Write the symptoms and control measures of TMV.

### **SECTION – C**

**(5 X 5 = 25 MARKS)**

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

16. a) Discuss macrandrous and nannandrous plant species of *Oedogonium*.

**(OR)**

b) Define lichen and explain its types.

17.a) With neatly labeled diagram, explain the strobilus of *Lycopodium*.

**(OR)**

b) Give an account of male and female reproductive structures of *Cycas*.

18. a) Explain the components of water conducting tissue with suitable diagram.

**(OR)**

b) With an example, describe the primary structure of monocot stem you have studied.

19.a) Describe the 8 nucleate embryo sac with example.

**(OR)**

b) Define endosperm and explain its types.

20.a) Describe the disease cycle of Citrus canker.

**(OR)**

b) Give an account of plant disease control by chemical methods.

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