

(FOR THE CANDIDATES ADMITTED

22UZY1A1

DURING THE ACADEMIC YEAR 2022 only)

REG.NO. :

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