

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

24UBY202

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : MAY-2025

B.Sc.-BOTANY
SEMESTER: II

MAXIMUM MARKS: 75
TIME : 3 HOURS

PART-III
PLANT DIVERSITY - II
SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.
MULTIPLE CHOICE QUESTIONS.

(K1)

1. Pteridophyta group is otherwise known as_____
(a) Phycobionts (b) Cryptogams (c) Mycobionts (d) Basal Angiosperms
2. Sporangia arise from the several epidermal cell is known as_____.
(a) Sporangial formation (b) Eusporangium (c) Leptosprangium (d) Heterospory
3. Naked seed are present in_____.
(a) Bryophytes (b) Pteridophytes (c) Gymnosperms (d) Angiosperms
4. Example of dioecious species_____.
(a) Peacock fern (b) *Pinus* (c) *Selaginella* (d) *Gnetum*
5. Second largest geochronological unit is_____.
(a) eon (b) era (c) Period (d) age

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES

(K2)

6. Protostele.
7. Leptosporangium.
8. Coralloid Root.
9. Dioecious.
10. Define: Palaeobotany.

SECTION – B

(5 X 5 = 25 MARKS)

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

(K3)

11. a) Give an outline structure of Pteridophytes classification by Reimers.
(OR)
b) Write the general characteristics of Pteridophytes.
12. a) Explain the morphological characters of *Gleichenia* with neat diagrams.
(OR)
b) Comment on the internal anatomical structures in *Selaginella stem* with neat sketches.

(CONTD 2)

13. a) Enumerate the morphological structure of *Cycas* with suitable diagrams.
(OR)
b) Explain the internal anatomical structures of *Cycas root* with neat sketches.
14. a) Enumerate the morphological structure of *Gnetum* with suitable diagrams.
(OR)
b) Discuss about the evolution relationship between Gymnosperms and Angiosperms.
15. a) Define fossil. Write short notes on various types of fossils.
(OR)
b) Briefly explain the morphological morphology of *Rhynia* with neat diagrams.

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

16. a) Enumerate the Stelar evolution and its types in Pteridophytes.
(OR)
b) Discuss about the reproduction in *Psilotum*.
17. a) Elaborate the reproduction in *Selaginella*.
(OR)
b) Explain the economic uses of Pteridophytes.
18. a) Give an account on the classification of Gymnosperms by Sporne (1965).
(OR)
b) Illustrate the reproduction in *Cycas* with suitable diagrams.
19. a) Discuss about the reproduction in *Gnetum* with suitable sketches.
(OR)
b) Explain the economic uses of Gymnosperms.
20. a) Enumerate the details about geological time scale with neat time scale sketch.
(OR)
b) Describe the structure and reproduction in fossil *Williamsonia*.
