

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

23UBY202

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS): POLLACHI
END-OF-SEMESTER EXAMINATIONS: MAY-2024
COURSE NAME: B.Sc.-BOTANY **MAXIMUM MARKS: 75**
SEMESTER-II **TIME : 3 HOURS**

PART - III

PLANT DIVERSITY-II

SECTION - A (10 X 1 = 10 MARKS)

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

1. The trilocular synangium is characterics of _____.
a) *Psilotum* b) *Marsilea* c) *Salvinia* d) *Azolla*
2. Incipient Heterospory is present in _____genera.
a) *Pteris* b) *Lycopodium* c) *Selaginella* d) *Equisitum*
3. Cataphylls are found in _____plant.
a) *Pinus* b) *Cycas* c) *Gnetum* d) *Taxus*
4. The alkaloid Ephetrin obtained from Ephetra belongs to the group of _____.
a) Fungi b) Bryophytes c) Gymnosperms d) Angiosperms
5. The main fossilized plant parts of the genera of *Lepidostrobilus* are _____.
a) Stem b) Root c) Cone d) Leaves

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

6. Write the mixed protostele.
7. Mention heterosporous genera.
8. State Coralloid Root .
9. Comment on Vesselless Angiosperm.
10. Point out about *Rhynia* .

SECTION – B (5 X 5 = 25 MARKS)

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

11. a) Outline the classification of Pteridophytes proposed by Reimers.
(OR)
b) Expound the phenomenon of heterospory and seed habit .
12. a) Enlist the salient features of the major class ligulopsida with suitable example.
(OR)
b) Write the various economic aspects of Pteridophytes .

(CONTD.....2)

13.a) Enumerate the general characters of Gymnosperms.

(OR)

b) Elucidate the structure of cycas male cone

14. a) State the economic importance of Gymnosperms

(OR)

b) Illustrate the habit and habitat of *Gnetum* species

15.a) Describe the fossil genera *Williamsoma*

(OR)

b) Distinguish between *Lepidodendron* and *Lepidocarpon*

SECTION - C

(5 X 8 = 40 MARKS)

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

16. a) Present the general characters of Pteridophytes

(OR)

b) Describe the stelar evolution of vascular cryptogams

17.a) Explicit the various methods of reproduction adopted by *Selaginella*

(OR)

b) With suitable illustrations describe the sporophyte morphology and anatomy of *Gleichenia*

18. a) Present the Sporne classification of Gymnosperms.

(OR)

b) Elucidate the external and internal features of sporophyte of *Cycas* .

19.a) State the reproduction of *Gnetum* with neat diagram

(OR)

b) Bring out the close affinities of *Gnetum* with Angiosperms

20.a) Critically analyze the evolution of various organisms with geological time scale

(OR)

b) Expound the various methods of fossilization

ETHICAL PAPER