

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

23PBY102

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI
END-OF-SEMESTER EXAMINATIONS : November-2023
COURSE NAME: M.Sc.-BOTANY
SEMESTER: I
MAXIMUM MARKS: 75
TIME : 3 HOURS

PLANT DIVERSITY II

SECTION – A (10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. In Pteridophyte spore bearing leaf is called_____.
a. Sorus b. Indicium c. Sporophyll d. Megasporophyll
2. The seed habit originated from _____.
a. Bryophyte b. Algae c. Gymnosperms d. Pteridophyte
3. Polyembryony common in_____.
a. Gymnosperms b. Bryophyte c. Pteridophytes d. Angiosperms
4. Identify the plant is living fossil_____.
a. Gnetum b. Ginkgo c. Pentoxylon d. Taxus
5. _____ is the father of Indian paleontology.
a. George Cuvier b. Birbal Sahni c. Saxena d. Gupta

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

6. Circinate vernation.
7. Apogamy .
8. Ephedra.
9. Living fossil .
10. Carbon dating.

SECTION – B (5 X 5 = 25 MARKS)

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

- 11.a Explain the structure of Syngonium.
(OR)
- 11.b .Explain the external morphology of Equisetum.
- 12a. Describe the structure of sporocarp of the Marsilea.
(OR)
- 12b. Summarise the detailed account of telome theory.

(CONTD.....2)

- 13a. List out the characteristic features of Gymnosperms.
(OR)
- 13b. Illustrate the characteristics features of Pentoxylales .
- 14a. Describe the morphology and anatomy of Gnetum.
(OR)
- 14 b. List out the economic importance of Gymnosperms.
- 15a. Differentiate between compression and impression.
(OR)
- 15b. Analyse the radioactive carbon dating technique.

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

- 16a. Assess the structure and life cycle of Selaginella.
(OR)
- 16b. Evaluate the structure and life cycle of Psilotum.
- 17a. Explain the external and internal structure of Marsilea rhizome.
(OR)
- 17b. Summarize the stellar evolution in Pteridophyte
- 18a. Expound the general characteristics feature of Pteridospermales.
(OR)
- 18 b. Expound the general characteristics feature of Pentoxylales.
- 19a. Illustrate the morphology and reproduction of Ginkgoales.
(OR)
- 19b. Illustrate the reproduction of Gnetales.
- 20a. Assess the various types of fossils .
(OR)
- 20b. Discuss the methods of age determination for Fossils.
