K26FY0213 Reg.No ……

Name ……

FOURTH SEMESTER FYUGP DEGREE EXAMINATION

KU4DSCBOT203/KU4DSCPLS203

DIVERSITY OF PTERIDOPHYTES AND GYMNOSPERMS

2024 Admission onwards

Time: 1.5hrs Max. Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Define homospory and heterospory and cite one example for each.
2. Describe the structure of synangium.
3. Differentiate between protostele and siphonostele.
4. Give an account on the ecological aspects of *Marsilea* distribution.
5. List out any four differences between gymnosperms and pteridophytes.
6. Mention any four economically important pteridophytes.
7. Name any two species of *Gnetum* in India.
8. Write a short note on the geographical distribution of *Cycas*.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Give an account on the similar and contrasting features of bryophytes and pteridophytes.
10. Explain the life cycle of *Pteris* with the help of a diagrammatic sketch.
11. Describe the needle anatomy of *Pinus*.
12. Give an account on timber yielding gymnosperms and their advantages. Give four examples of timber yielding gymnosperms.
13. Explain the life cycle of *Cycas*.
14. Write a short note on the salient features of gymnosperms and enlist the advanced characters by comparing them with pteridophytes.

Section C

Answer any 1 questions. Each carry 14 marks.

15. Give a detailed account on the reproduction of *Gnetum*.
16. Write an essay on stelar evolution in pteridophytes by citing suitable examples,

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