

Q.P. Code : 11328

**Third Semester B.Sc. Degree Examination,
November/December 2019**

(CBCS – Freshers – 2019-20 and onwards)

Botany

**Paper III – PTERIDOPHYTES, PALEOBOTANY, ENVIRONMENTAL
BIOLOGY AND PHYTOGEOGRAPHY**

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates :

- 1) *Answer all questions.*
- 2) *Draw diagrams and write examples wherever necessary.*

PART – A

- I. Explain/Define any **TEN** of the following in **2** or **3** sentences : **(10 × 2 = 20)**
1. What is circinate vernation? Give an example.
 2. Define a Biome.
 3. Mention any four stages in Plant Succession.
 4. What is in-situ conservation?
 5. Name any four natural resources from forests.
 6. What are fossils?
 7. Name any two Bio-reserves.
 8. What is a ligule? Give an example.
 9. Name the two species of Rhynia.
 10. What is the role of National Parks?
 11. What is Social forestry?
 12. Define soil profile.

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PART - B

- II. Write critical notes on any **FOUR** of the following : (4 × 5 = 20)
13. Positive interactions.
 14. Watershed management.
 15. Compressions and Petrifications.
 16. Flower of cycadeoidea.
 17. T.S. of Synangium.
 18. Temperature as a climatic factor.

PART - C

- III. Give a comprehensive account of any **THREE** of the following : (3 × 10 = 30)
19. Give an account of Stellar evolution in Pteridophytes.
 20. Explain the sporophyte and T.S. of Rhizome in Marsilea.
 21. What is geological time scale? Emphasize on Paleozoic and Mesozoic era?
 22. Give an account of methods of soil conservation.
 23. What is Phytogeography? Enumerate the vegetational types of Karnataka.
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