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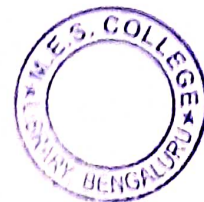
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III Semester B.Sc. Degree Examination, April - 2022

BOTANY

Pteridophytes, Paleo Botany, Ecology and Phytogeography  
(CBCS Scheme Freshers 2020-2021)

Paper : III



Time : 3 Hours

Maximum 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 to 3 sentences.

(10×2=20)

1. What is heterospory? Give an example.
2. Mention any two contributions of Birbal Sahni.
3. What is Phytoremediation?
4. Define Agroforestry.
5. What is synangium? Give an example.
6. Define Vivipary with an example.
7. What is gene bank? Mention its significance.
8. Mention any two salient features of Xerophytes.
9. What is silviculture?
10. What is contour farming?
11. What are petrification?
12. What is soil reclamation?

[P.T.O.]



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**PART - B**

**II.** Write critical notes on any **Four** of the following.

**(4×5=20)**

13. Rhynia.
14. Rhizophore of selaginella.
15. Light as a climatic factor.
16. V.T.S. of Marsilea sporocarp.
17. Ex-situ conservation methods of plant diversity.
18. Rain water Harvesting.

**PART - C**

**III.** Give a comprehensive account of any **three** of the following:

**(3×10=30)**

19. Ecological succession on a barren rock.
  20. Give an account of Anatomy of stem in different species of Lycopodium.
  21. Define an Ecosystem. Explain marine Ecosystem.
  22. Explain process of fossilization.
  23. Enumerate phytogeographical regions of India.
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III Semester B.Sc. Degree Examination, April - 2022

BOTANY

Pteridophytes, Paleobotany, Environmental Biology and Phytogeography  
(CBCS Scheme Repeaters 2019-2020 and onwards)

Paper : III



Time : 3 Hours

Maximum 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 protostele? Give an example.
2. What are trabeculae?
3. Define heterospory with an example.
4. What are fossils?
5. Draw a neat labelled diagram of T.S of synangium.
6. Define circinate vernation with example.
7. Define Autoecology.
8. Define petrification.
9. Name the two species of Rhynia.
10. What is In - situ and Ex-situ conservation?
11. Name any two Bioreserves.
12. Define Afforestation.

[P.T.O.]



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**PART - B**

**II.** Write critical notes on any **Four** of the following.

(4×5=20)

13. T.S. of stem of selaginella.
14. Contributions of Prof. Birbal Sahani to paleobotany.
15. Pentaxylon.
16. Explain light as a climatic factor.
17. Social forestry.
18. Watershed management.

**PART - C**

**III.** Give a comprehensive account of any **three** of the following:

(3×10=30)

19. Describe the different types of gametophytes of lycopodium.
  20. What is geological time scale? Emphasize on paleozoic and mesozoic era.
  21. Define an ecosystem. Discuss the positive interactions of biotic factors.
  22. Hydrosere.
  23. Give an account on phytogeographical regions of India.
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