

Reg No:.....

Name :.....

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First Semester FYUGP Botany Examination
NOVEMBER 2024 (2024 Admission onwards)
KU1MDCBOT102 (BOTANY FOR THE BEGINNERS)
 (DATE OF EXAM: 29-11-2024)

Time : 90 min

Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. List the five kingdoms of life. 2
2. List out two different types of Inflorescences? Give Example 2
3. What are lichens? 2
4. What ecological roles do parasitic plants play in their environments? 2
5. What role do ants play in myrmecophily and how does this benefit the plants involved? 2
6. What are nutraceuticals? Give an example. 2
7. Name any two medicinal trees. 2
8. Define green corridors. 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Imagine you are a scientist in the early stages of life on Earth. What hypotheses would you propose to explain the origin of life, and how would you test them? 6
10. How do you think the structure of racemose versus cymose inflorescences affects pollination strategies in different ecosystems? 6
11. How would the introduction of a new nitrogen-fixing plant species impact an existing ecosystem? Create a hypothetical scenario that explores both positive and negative outcomes. 6
12. If you were an animal responsible for planting seeds, what strategies would you use to ensure their survival? Consider factors like location, timing, and predator avoidance. 6
13. What are the benefits of nutraceuticals? How it is different from traditional and modern methods of medicines 6
14. Why is biodiversity important for the overall health of an ecosystem? 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. (a) Explain different pollination methods and the role of animals in seed dispersal. 7

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- (b) Discuss the role of nitrogen fixation in sustaining ecosystems. 7

16. Examine how the structure of a fruit can enhance its dispersal. Provide examples of fruits with different dispersal methods (wind, water, animals) and analyze the adaptations that support these methods. 14