

**VINAYAKA MISSION'S RESEARCH FOUNDATION  
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JANUARY 2020  
Fourth Semester**

**PHARMACOGNOSY AND PHYTOCHEMISTRY I**

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. Explain various factors influencing cultivation of medicinal plants, including the effect of phytohormones on the growth of medicinal plants with suitable examples.
2. Explain the basic principle involved in Ayurveda, Siddha and Homoeopathy system of medicine.
3. a) Compare and contrast acacia and tragacanth. (5)  
b) Write the pharmacognosy details and describe the preparation of castor oil. (3)  
c) Write a short note on chemical test for senna. (2)

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. History and scope of Pharmacognosy.
5. Explain in detail about the chemical and biological methods of classification of crude drugs with examples.
6. Explain about the nutrient media and its uses. Give the different ingredients present in it.
7. Write the source, method of preparation, constituents, confirmatory tests and uses of agar.
8. Classify allergens giving examples to each.
9. Explain the detailed note on lipids.
10. Write a short note on adulteration of crude drugs.
11. Applications of Plant tissue culture.
12. Write a short note on polyploidy and Mutation with reference to Medicinal plants.

III. Write short notes on : (10 x 2 = 20)

13. Sterilization of explants.
14. Define swelling factor.
15. Importance of Lycopodium spore method.
16. Keller Killiani test
17. Terpeneless volatile oils.
18. What are auxins?
19. Define bhasma and churna.
20. Give the applications of callus culture.
21. Morphological method of evaluation of crude drugs.
22. General properties of alkaloids.

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