

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

**B.PHARM. DEGREE EXAMINATION – JULY 2019
Fifth Semester**

PHARMACOGNOSY AND PHYTOCHEMISTRY - II

Time : Three hours

Maximum: 75 marks

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

1. What are Resins? Discuss about their properties and explain about any one in detail.
2. Define alkaloids. Give chemical classification with examples. Write the chemical constituents and therapeutic uses of Rauwolfia.
3. Write in brief industrial production and application of Forskolin.

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

4. Modern methods of extraction.
5. Isolation and identification of curcumin.
6. Note on Ginger.
7. a) Keller Killiani test b) Murexide test
8. Artemisin
9. Write the chemical classes and therapeutic uses of Ruta.
10. Biogenesis of Atropine.
11. Isolation of Reserpine.
12. Principle and application of gas chromatography.

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

13. Importance of UV analysis of drugs.
14. Pharmaceutical application of digoxin.
15. Write the structure and use of morphine.
16. Source and uses of caffeine.
17. Two difference of HPLC and HPTLC.
18. Define biogenesis.
19. Glycyrrhetic acid – use.
20. Chemical constituents of catechu
21. Biosource of coriander
22. Taxus use.