

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University), SALEM**

**B.PHARM. DEGREE EXAMINATION – October 2021
Fifth Semester**

PHARMACOGNOSY AND PHYTOCHEMISTRY - II

Time : Three hours

Maximum: 75 marks

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

1. Write Pharmacognosy of Liquorice.
2. What are cardiac glycosides? Give the Pharmacognosy of Digitals in detail.
3. Describe the Solid phase extraction.

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

4. Give biosources, chemical constituents and uses of coriander and belladonna.
5. Give the Pharmacognosy of vinca.
6. Give the biological source, chemical constituents and uses of any two alkaloid drugs.
7. Describe macroscopy and microscopy of Liquorice.
8. Describe different methods of extraction and identification of Glycyrrhizin.
9. Write the method of production and identification for atropine.
10. Describe HPTLC with its advantages and applications.
11. Explain the industrial production and uses of artemisinin.
12. Write the isolation and identification of Quinine.

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

13. Give adulterants and uses of Clove.
14. Define chromatography and its principles.
15. Give chemical constituents and uses of Opium.
16. Give chemical constituents and uses for Liquorice.
17. Write chemical constituent and uses of Mentha.
18. Write the chemical tests for Reserpine.
19. Give the source and uses of Citral.
20. Write Source and uses of Podophyllotoxin.
21. Explain microscopy of Ginger with neat labeled diagram.
22. UV for identification of phyto constituents.