

# Rajiv Gandhi University of Health Sciences, Karnataka

## Fifth Semester B. Pharm Degree Examination – 21-Jan-2020

**Time: Three Hours****Max. Marks: 75 Marks****PHARMACOGNOSY AND PHYTOCHEMISTRY - II****Q.P. CODE: 5021**

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

**LONG ESSAYS (Answer any Two)****2 x 10 = 20 Marks**

1. Explain industrial method of production and estimation of Vincristine and Atropine.
2. Write Pharmacognosy of Dioscorea.
3. Explain Microwave assisted extraction and solid phase extraction method.

**SHORT ESSAYS (Answer any Seven)****7 x 5 = 35 Marks**

4. Discuss the industrial production and identification of Sennosides.
5. Write a note on Acetate pathway and its significance.
6. Write a note on Carotenoids.
7. Give the applications of HPTLC and GC.
8. Give chemical test for Benzoin and Colophony.
9. Give botanical source and chemical constituents of Aloe and Tea.
10. Write the method of isolation and estimation of Curcumin.
11. Write the method of production and identification for digoxin.
12. Give the biological source and Chemical constituents of Cinnamon and Gentian.

**SHORT ANSWERS (Answer All)****10 x 2 = 20 Marks**

13. Give the source and chemical constituents of Fennel.
14. Give the chemical structure of Atropine and caffeine.
15. Write the applications of TLC.
16. Explain Keller Killani Test.
17. Give biological source of Mentha and Rauwolfia.
18. Define Chromatography and Electrophoresis.
19. Application of supercritical fluid extraction
20. Write a note on Liquid scintillation counter.
21. Describe Muroxide test.
22. Adulterants of clove.

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