

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Year B.Pharm Degree Examination – 21-Jan-2020

**Time: Three Hours****Max. Marks: 80 Marks**

### **PHARMACOGNOSY AND PHYTOCHEMISTRY** **(Revised Scheme - 2)**

**Q.P. CODE: 1963**

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. Define alkaloids. Classify with examples and give method of extraction and chemical tests.
2. Describe various chromatographic methods used for purification of phytoconstituents.
3. Describe various spectroscopical methods of evaluation.

**SHORT ESSAYS (Answer any Eight)****8 x 5 = 40 Marks**

4. Isoprenoid pathway.
5. Biosynthesis of Tropane alkaloids.
6. Chemistry of Anthracene Glycosides.
7. Source, diagnostic characters, active constituents, uses and adulterants of Cinchona.
8. Pharmacognosy of Digitalis.
9. Structure of Morphine, Diosgenin, Quinine, Fenchone and Eugenol.
10. Source, active constituents and uses of Clove and Liquorice.
11. Source, Chemical tests and uses for aloes.
12. Biological evaluation of crude drugs.
13. Write a note on Solanaceous drugs.

**SHORT ANSWERS****10 x 2 = 20 Marks**

14. Opium alkaloids
15. Classification of Resins.
16. Ginseng.
17. Diagnostic characters of Senna.
18. Isothiocyanate glycosides.
19. Capsicum.
20. Keller-Killiani test.
21. Source and uses of Podophyllum.
22. Define Tracer technique.
23. Ash values.

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