

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Pharm Degree Examination – JAN-2019

Time: Three Hours**Max. Marks: 70 Marks**

PHARMACOGNOSY & PHYTOCHEMISTRY
(RS - 4)
Q.P. CODE: 2637

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. What are alkaloids? Explain their general properties and mention their general chemical tests and specific chemical tests for Quinine, Atropine and Caffeine.
2. Write in detail different chromatographic methods employed for isolation and purification of phytoconstituents.
3. Describe the pharmacognosy of digitalis.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Quantitative microscopy
5. Explain shikimic acid pathway.
6. Note on Ginseng
7. What are Amino alkaloids? Discuss Colchicum.
8. Explain in brief the analysis of clove oil.
9. Source, active principles, adulterants and uses of Arjuna
10. Preliminary phytochemical screening of plant metabolism
11. Mention the biological source, chemical constituents specific tests and of Aloe.

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

12. Write the chemical nature and uses of α and β Carotenes.
13. Anti-inflammatory and anti-spasmodic agents of marine origin
14. Chemical test for cyanogenetic glycosides
15. Source, chemical composition and uses of eucalyptus oil
16. Source and uses of Bahera
17. Structure and test for caffeine
18. Total Ash value
19. Source and uses of Cochineal
20. Taxus
21. Palisade Ratio
