

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Pharm Degree Examination – DEC-2014

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

PHARMACOGNOSY AND PHYTOCHEMISTRY
(Revised Scheme 3)

Q.P. CODE: 2613

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

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

1. Define Alkaloids. Discuss the biosynthetic pathway of tropane alkaloids.
2. Discuss in detail the chromatographic techniques involved in separation and isolation of phytoconstituents
3. Explain the properties, general methods of isolation and estimation of tannins

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

4. What are resins? Classify the resins with examples.
5. Explain briefly estimation of clove oil or cinnamaldehyde.
6. Microscopic method of drug evaluation
7. Biosynthesis of Quinoline alkaloids
8. Write the chemistry of cardiac glycosides.
9. Source, diagnostic characters, active constituents and uses of Rauwolfia
10. Give an account of Euclidean methods of extraction of volatile oils
11. Ash values and their significance

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

12. Differentiate anthranols from anthrones
13. Write the diagnostic characters of Kurchi
14. Give the adulterants of Clove
15. Chemical structure and uses of Capsaicin
16. What are nutgalls
17. Modified Borntrager's test
18. Importance of glycon and aglycon in cardiac glycosides
19. Monoterpenes
20. Alkaloids of Ergot
21. Analytical parameters of volatile oils