

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Pharm Degree Examination – NOV 2016**

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

**PHARMACOGNOSY & 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. Give the source, specific chemical tests and biosynthesis of morphine.
2. Write the properties, chemical nature and methods of isolation of volatile oils.
3. Explain the mevalonic acid pathway leading to the biosynthesis of various isoprenoid compounds.

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

4. Add a note on precursor product sequence method
5. Hydrolysis products of purpurea glycosides A and B
6. Microscopic evaluation of crude drugs
7. Methods of estimation of tannins
8. Describe shikimic acid pathway
9. Write the source, active principles and uses of ephedra
10. Applications of HPTLC in drug analysis
11. Terpeneless volatile oil
12. Cyanogenetic glycosides
13. Lycopodium spore method

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

14. General tests for alkaloids
15. Significance of various ash values
16. Compare the diagnostic characters of cinnamon with cinchona
17. What is taxol?
18. Adulterants of senna
19. Solanum species
20. Active constituents and uses of veratrum
21. Morphology of rauwolfia
22. Vitali-Morin's test
23. Ratio values

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