

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

**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. Explain the evaluation of natural products by morphological and microscopical techniques.
2. Define and classify glycosides. Write the pharmacognosy of a cardiac glycoside.
3. Give the biosynthesis of Indole alkaloids.

**SHORT ESSAYS (Answer any Eight)**

**8 x 5 = 40 Marks**

4. Saponins
5. Moisture content
6. Diagnostic characters of clove
7. Biosynthesis of steroidal glycosides
8. Powder microscopic characters of senna and digitalis
9. Classification and general properties of tannins
10. Resins
11. Isoprenoid biosynthesis and its significance
12. Pharmacognosy of ergot alkaloids
13. Chemical evaluation of natural drugs

**SHORT ANSWERS**

**10 x 2 = 20 Marks**

14. Identification tests for alkaloids
15. Tea
16. Identification tests for benzoin
17. Liebermann – Burchard test
18. Citrus bioflavonoids
19. Applications of HPLC in Pharmacognosy
20. Bufadienolides
21. Radio active isotopes
22. Acetate pathway
23. Gases used in gas chromatography

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