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# Rajiv Gandhi University of Health Sciences, Karnataka III Year B.Pharm Degree Examination - Sep 2012

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)

 $2 \times 10 = 20 \text{ Marks}$ 

- 1. State the biosynthesis of shikimic acid and isoprenoid pathways
- 2. Highlight the role chromatographic techniques in the isolation of natural products
- 3. Write in detail about Cardiac glycosides

### **SHORT ESSAYS (Answer any Eight)**

 $8 \times 5 = 40 \text{ Marks}$ 

- 4. Write a note on tropane alkaloids
- 5. Distinguish between Sumatra benzoin and Siam benzoin
- 6. Ash value and its determination
- 7. Classify tannins, giving properties of each class with examples
- 8. Compare the diagnostic characters of cinchona and cinnamon powder
- 9. Brief account on extraction of volatile oil
- 10. Source, active constituents and uses of Aloes and Licorice
- 11. Biosynthesis of opium alkaloids
- 12. Write a note on isolation and purification of Natural Products
- 13. Estimation of Alkaloids

#### **SHORT ANSWERS**

 $10 \times 2 = 20 \text{ Marks}$ 

- Mention the uses of Aconite
- 15. Define primary and secondary metabolites
- 16. Explain autoradiography
- 17. State the importance of chemical evaluation
- 18. Mention few anticancer principles from marine products
- 19. Name the adulterants and substitutes of Nux vomica
- 20. What are bitters?
- 21. Chemical constituents and uses of Kurchi
- 22. Name the adulterants and substitutes of Rauwolfia
- 23. Source and uses of Nutgalls