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

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)

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

- 1. Write the pharmacognosy of Opium. Explain the biosynthesis of Morphine and Papaverine
- 2. Give an account on general methods for extraction of Natural products. Explain superfluid critical extraction in detail
- 3. Give the chemistry of cardiac glycosides. Write the pharmacognostic scheme of one crude drug possessing cardiac glycosides

SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- 4. Discuss precursor product sequence method
- 5. Give source, diagnostic characters, active principles and uses of Ginger
- 6. Write the chemistry of flavanoid glycosides ?
- 7. Writ a note on method of estimation of moisture content
- 8. Leaf surface constants
- 9. Give the chemical structure and one specific test for digitoxin and colchicines
- 10. Give the method of extraction and chemical tests for tannin acid
- 11. Classify volatile oils with examples

SHORT ANSWERS 10 x 2 = 20 Marks

- 12. Terpeneless volatile oils
- 13. Cyanogenetic glycosides
- 14. Adulterants and chemical tests for Senna
- 15. Chemical structure and uses of Conessine
- 16. Differentiate Sumatra benzoin from siam benzoin
- 17. Taxus species
- 18. Significance of steroidal glycosides as a source of drugs
- 19. Manipulated opium
- 20. Nonphenolic alkaloids of Ipecacuanha
- 21. Importance of lycopodium spore method