

tmp.doc

Rajiv Gandhi University of Health Sciences, Karnataka IV Year B.Pharm Degree Examination - Aug / Sep 2011

Time: Three Hours Max. Marks: 80 Marks

INDUSTRIAL PHARMACOGNOSY (Revised Scheme - 2)

Q.P. CODE: 1970

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. Explain the general methods for isolation, identification and estimation of Glycyrrhizin and withanolides.
- 2. Explain the terms: Evaluation and Standardization. What are the WHO guidelines for the assessment for crude drugs, extracts and formulations?
- 3. Explain the principles involved in Ayurveda, Siddha and Unani.

SHORT ESSAYS (Answer any Eight)

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

- 4. Explain the method for isolation and estimation of quinine.
- 5. What is the role of Soapnut, Amla and Henna in herbal cosmetics?
- 6. What is the importance of HPTCL and HPLC in herbal drug analysis?
- 7. Explain the standardization of Kalmegh extract.
- 8. What is immobilization of cells and enzymes? Give its applications with examples.
- 9. Explain the methods of isolation and estimation of guggul lipids.
- 10. Give source, chemical constituents and uses of: Kantakari, Rasna, Arjuna and Shatavari.
- 11. What is hybridization? Classify and give its applications in plant biotechnology with examples.
- 12. Give an account of patenting of natural products.
- 13. Explain the factors affecting the production of secondary metabolites in tissue culture with examples.

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

- 14. Give source, chemical constituents and uses of gymnema.
- 15. Explain the principle of Homeopathy.
- 16. Explain the terms: Electroporation and Microinjection.
- 17. What are the differences between Asava and Arista?
- 18. Give the source and uses of hyaluronidase.
- 19. What is biotransformation?
- 20. Define and give applications of mutation.
- 21. What are papain and bromelain?
- 22. Write the structure of sennosides.
- 23. What is Shilajit? Give its uses. www.FirstRanker.com



tmp.doc

Rajiv Gandhi University of Health Sciences, Karnataka

MMM.FirstPainker.com