

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – DEC 2017

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 x 10 = 20 Marks

1. Explain the methods of isolation, identification and estimation of Ephedrine and Quinine.
2. Discuss the importance of standardization of raw materials, extracts and formulations with suitable examples.
3. Describe in detail production of Streptokinase and Urokinase.

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Give the identification and evaluation methods for the active constituent present in Vasaka by HPTLC.
5. Give the brief account of herbal drug industry.
6. What are direct methods of gene transfer in plants?
7. Explain the methods for isolation, preparation and uses of Papain.
8. What are explants? How will you induce callus from it?
9. What is immobilization? Describe various methods of immobilization of enzymes and their applications.
10. Explain different methods of isolation and estimation of glycyrrhizin.
11. How do you estimate copper and zinc in herbal preparation?
12. What is Asava? Explain various methods determination of alcohol in it.
13. Give the methods of standardization of Punamava and Aswagandha.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Give the source and uses of Asiaticoside.
15. Give the source, chemical constituent and uses of Bilva.
16. Patent of natural products.
17. What is hybridisation?
18. Explain the procedure involved in preparation of Bhasma.
19. Describe Homeopathy system of medicine.
20. What is organogenesis? What are its applications?
21. Explain the role of Soapnut in herbal cosmetics.
22. Give the structure of Sennosides.
23. Describe quantitative microscopy.
