

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.Pharm Degree Examination - Dec-2014

Time: Three Hours**Max. Marks: 70 Marks**

INDUSTRIAL PHARMACOGNOSY
(Revised Scheme – 3)

Q.P. CODE: 2620

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. Describe the methods of isolation, identification and estimation of Gymnemic acid and Calcium Sennosides.
2. Define the terms IPR & Patents. Give an account of patenting of natural products.
3. Explain in detail about the isolation and fusion of protoplasts.

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. Evaluation of extract containing Kalmegh
5. Enzyme reactors
6. Chemodemes
7. Importance of Henna and Amla as hair conditioners
8. Industries involved in the development of herbal products
9. Comparison of Callus and Suspension cultures
10. Biotransformation
11. Detection of Alcohol content in Asava and Arista

SHORT ANSWERS**10 x 2 = 20 Marks**

12. Applications of Marker compounds
13. Identification tests of Cardiac glycosides
14. Role of sandalwood in skincare preparations
15. Source and uses of Chirata and Gokhru
16. Define Polyploidy and Mutation.
17. Define protoplasts.
18. Significance of Ash values
19. Merits and demerits of HPTLC
20. Applications of tissue culture
21. Applications of immobilization of enzymes
