

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

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. Write the differences between gene, genome, Chromosome and Transgenic plants. Describe the technique for gene transfer using vectors.
2. Write briefly the role of markers in drug evaluation. Enumerate the various types of patents for natural products with examples.
3. Explain the general methods of Isolation and purification of enzymes. Add a note on Immobilization of enzymes.

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

4. Concept of Ayurveda.
5. Describe the method of isolation and estimation of calcium sennosides.
6. Production of Urokinase.
7. Applications of Plant biotechnology.
8. W.H.O Guidelines for assessment of crude drugs and medicines.
9. Write a brief note on status of herbal industry.
10. Write the method of isolation of Amm Glycerrhizinate.
11. Write the method of estimation of caffeine.

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

12. What are aristas and asavas?
13. Define Enzyme.
14. What is the difference between patent and IPR?
15. Define Homeopathy.
16. What is Siddha medicine?
17. Papain.
18. Uses of Tylophora and chirata.
19. Amla.
20. Define Chemodemes.
21. What are Nutraceuticals?
