

Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – Oct/Nov 2014

Time: Three Hours**Max. Marks: 100 Marks****ADVANCED PHARMACOGNOCY AND PHYTOCHEMISTRY**

(Revised scheme 4)

Q.P. CODE: 9384

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)**2 x 20 = 40 Marks**

1. Explain the applications of chromatography in isolation, identification and purification of phytoconstituents. What is the role of process simulation in extraction technology? Give the methods of isolation and estimation of volatile oils.
2. Explain the concept of use of natural products as lead compounds with suitable examples for design for antidiabetic and cardiovascular drugs.
3. Explain WHO guidelines on safety monitoring of herbal medicine in Pharmacovigilance system. Give examples of herb- drug and herb-herb interactions.

SHORT ESSAYS (Answer any FIVE)**5 x 10 = 50 Marks**

4. Describe the different methods of screening of natural products for anti-inflammatory and antiulcer activities.
5. Explain the chemistry and biogenesis of glycosides.
6. Explain reverse pharmacology process for drug development from natural leads.
7. What are endophytes? Give examples of metabolites with pharmacological activities.
8. Explain the different methods of authentication of herbal drugs.
9. Explain the different types of reference style in biomedical literature. How do you write a successful research grant proposal?

SHORT NOTES**2 x 5 = 10 Marks**

10. What is the role of complementary alternative medicine in search for new drugs? Explain.
11. Explain the chemistry and biogenesis of steroids.
