

PY - 504

B.Pharmacy V Semester

Examination, December 2013

Pharmacognosy - III

Time : Three Hours

RGPVONLINE.COM *Maximum Marks : 70*

- Note:** 1. Solve any five questions.
2. Draw diagram wherever necessary.

1. a) What is primary metabolites and secondary metabolites differentiate between them. With suitable examples.
b) Describe in detail Radio-trace technique for biogenesis study.
2. a) Describe in detail chemistry biosynthesis pathway and pharmacological activity of Atropine.
b) Draw the structure of strychnine and morphine.
3. a) Elaborate detail pharmacognostical study of Rauwolfia.
b) Give the Biological source, chemical constituents and uses of Vinca.

4. Describe the following crude drug with their biological source, phytochemistry and uses of
 - a) Tobacco
 - b) Ipecac
 - c) Opium
 - d) Colchicum
5. a) Give the biosynthetic pathway of tropane alkaloid.
b) Draw the T.S. of Belladonna leaf.
6. Describe in detail stereoisomerisms nature, distribution, classification, methods of isolation of terpenoids.
7. a) Give the phytochemical screening of various extracts for the presence of saponins, amino acid, carbohydrates.
b) Biogenesis of menthol. **RGPVONLINE.COM**
