

**Third Year B.Pharm Degree Supplementary Examinations
November 2018
Pharmacognosy II**

(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- **Answer all Questions**

Essays

(3x10=30)

1. Give the biological sources, cultivation, chemical constituents, specific chemical tests and substitutes of a cardio active sterol containing crude drug.
2. Differentiate belladonna and datura macroscopically and microscopically with suitable illustrations.
3. Define isoprene rule. Enumerate a pathway to derive triterpenes by isoprenoid synthesis.

Short notes

(14x5=70)

4. Chemical constituents and uses of Satavari and Asoka bark.
5. Historical background and principles of ayurvedic system of medicine.
6. Brief note on tobacco leaves.
7. Macroscopy of Cinchona and Aloe
8. Novel therapeutic agents having CNS activity from marine source.
9. Preparation and identification tests of maltase.
10. Microscopy features of Senna and liquorice.
11. Methods to check adulterants in sarsaparilla.
12. Shikimic acid pathway.
13. Chemical tests to detect indole alkaloids.
14. Botanical sources, vernacular names and macroscopy of tylophora and rasna.
15. Plant bitters and their significance.
16. Chemical constituents and uses of Rauwolfia.
17. Collagen
