

Roll No

PY-504 (CBGS)**B.Pharm., V Semester (PCI Scheme)**

Examination, December 2017

Choice Based Grading System (CBGS)**Pharmacognosy and Phytochemistry - II***Time : Three Hours**Maximum Marks : 75***Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. What are primary and secondary metabolites? Describe Shikimic Acid pathway in detail.
2. Explain different methods of crude drug extraction. Discuss Thin Layer Chromatography (TLC) or isolation technique.
3. Write down in detail industrial production and analysis of sennoside and artemisinin.
4. What are radio isotopes? Explain the utilization of radioisotopes in the investigation of Biogenetic pathways.
5. Write short notes (any three):
 - a) Senna
 - b) Biogenetic pathways
 - c) Amino Acid pathway
 - d) Rauwolfia
 - e) HPTLC

6. Give the Bio source, composition, chemicals and therapeutic applications of following (any three):
 - a) Opium
 - b) Vinca
 - c) Digitalis
 - d) Aloes
 - e) Clove

7. Give isolation and identification of following drugs (any three)
 - a) Atropine
 - b) Menthol
 - c) Artemisinin
 - d) Quinine
 - e) Caffeine

8. What are Alkaloids and Glycosides? Give isolation and identification of Glycyrrhetic acid and curcumin.
