

Code No. 7220 / S

FACULTY OF PHARMACY**B. Pharmacy III Year I-Semester (Suppl.) Examination, April 2014****Subject : Pharmacognosy – II****Time: 3 Hours****Max.Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 (a) Write the colour reactions and general methods of isolation of alkaloids. 5
(b) Give the biological source, chemical constituents and uses
a) Belladonna b) Cinchona c) Opium 9
OR
(c) Write the chemistry and therapeutic properties Rouwolfia and Vinca. 8
(d) With neat labelled diagram describe the morphological and microscopical characters of Nuxvomica. 6
- 2 (a) Write the sources, chemistry and uses of any two drugs containing glucosides. 8
(b) Give an informative note on cardiac glycosides. 6
OR
(c) Write the chemical test for (i) Digitaxose (b) Sennosides. 4
(d) Write the sources, chemistry and therapeutic importance of Brahmi and Ashwagandha. 10
- 3 (a) Write the biological source, chemistry and uses of Artemisia. 9
(b) Describe the morphological and microscopical characters of Fennel. 5
OR
(c) Describe the isolation and estimation of sennosides from senna. 6
(d) Write the chemical constituents and uses of i) Taxus, ii) Podophyllen, iii) Asafoetida iv) clove. 8
- 4 (a) What is micropropagation and classify the different techniques with significance of each technique. 6
(b) Give an informative note on Biotransformation and Immobilization technique. 8
OR
(c) Write about:
i) Process of organogenesis. 6
ii) Surface sterilization techniques 4
iii) Mineral supplements used in culture media. 4
- 5 (a) Narrate the traditional systems of medicines developed in India and give their importance. 5
(b) Describe the method of preparation of i) Ghritams ii) Aswas iii) Bhasmas. 9
OR
(c) Give an informative note on discovery of new drugs from natural sources. 7
(d) What are leaf constants and ash value? Give their importance. 7
