

FACULTY OF PHARMACY**B. Pharmacy 3/4 I – Semester (Main) Examination, November 2015****Subject : Pharmacognosy – II****Time : 3 hours****Max. Marks : 70****Note: Answer all questions. All questions carry equal marks.**

- 1 a) Write the systemic pharmacognostic study of Opium? 5
b) Write the chemical constituents, uses and adulterants of
A) Nuxvomica B) Vinca C) Ephdra 9
OR
c) Describe the microscopical characters of 9
i) Rauwolfia ii) Cinchona iii) Vasaka
d) Define alkaloids and write the classification with suitable examples. 5
- 2 a) Write the Biological source, chemistry, therapeutic uses and adulterants of Senna, Ashwagandha? 10
b) Write the informative note on bitter glycosides. 4
OR
c) What are cardiac glycosides, classify and write the chemistry, mechanism action of digitalis? 6
d) Write a brief note on Indian Ginseng and Gymnema. 8
- 3 a) Describe the Isolation and estimation of quinine from cinchona. 6
b) Write the chemical constituents and uses of
i) Artemisia ii) Taxus 8
OR
c) Describe the estimation of sennosides from senna. 6
d) What are Resins, classify with examples? 5
e) Write the Biological source, chemical constituents of clove. 3
- 4 a) Define Tissue culture? Write about sterilization technique applicable to plant tissue culture. 5
b) Write the applications of plant tissue culture with suitable examples. 9
OR
c) Write a brief note on historical development of plant tissue culture technology. 6
d) Note the different culture techniques. Explain the process of immobilization technique with applications. 8
- 5 a) Write in detail quality control of Raw materials. 7
b) Give the preparation of Aristavas and Ghritams. 7
OR
c) Write the informative note on discovery of new drugs from natural source. 8
d) Write about the status and practice of Herbal medicine in India. 6
