

**FACULTY**

**B. Pharmacy 3/4 Year I Semester (Non CBCS) (Backlo) Examination,  
November 2018**

**Subject : Pharmaconosy II**

**Time : 3 Hrs**

**Max. Marks: 70**

**Note: Answer all questions. All questions carry equal marks.**

- 1 a) Define alkaloids. Write the classification, general tests and isolation methods of alkaloids. (7)  
b) With a neat labeled diagram describe the morphological and microscopical features of Vinca. (7)  
**OR**  
c) Write the specific chemical tests for detection of (5)  
i) Indole alkaloids ii) Tropane alkaloids  
d) Write the biological source, chemical constituents and uses of (9)  
i) Punarnava ii) Shankhpushpi iii) Ephedra
- 2 a) Define and classify glycosides with suitable examples. (6)  
b) Write the biological source, chemical constituents and uses of (8)  
i) Brahmi ii) Picrorhiza iii) Gentian iv) Shatavari  
**OR**  
c) Write the sources, chemistry, therapeutic uses and tests of Anthraquinone glycosides. (7)  
d) Write the pharmacognostic study of Digitalis. (7)
- 3 a) Write the isolation and estimation of cineole from eucalyptus oil. (6)  
b) Write the chemical nature and uses of (8)  
i) Taxus ii) Artemisia  
**OR**  
c) Write the isolation and estimation of tannic acid from myrobalan. (6)  
d) Write the biological source, chemical constituents and uses of (8)  
i) Eucalyptus ii) Pyrethrum iii) Clove iv) Asafoetida
- 4 a) Discuss about nutritional requirements of an ideal plant tissue culture medium. (10)  
b) Write a note on sterilization of explants. (4)  
**OR**  
c) Define (6)  
i) Callus culture ii) suspension culture iii) embryo culture  
d) Write the advantages of plant tissue culture. (8)
- 5 a) Discuss the pharmacological principle of ayurvedic system of medicine. (5)  
b) Write the method of preparation of (9)  
i) Bhasmas ii) Leyhas iii) Churnas  
**OR**  
c) Discuss on Indian traditional system of medicine. (6)  
d) Write a note on quality control and standardization of raw materials used in herbal medicines. (8)

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