

FACULTY**B. Pharmacy 3/4 Year I Semester (Non CBCS)(Backlo) Examination, August 2019****Subject : Pharmacology II****Time : 3 Hrs****Max. Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 a) Write the pharmacological study of Cinchona. (8)
b) Write the biological source, chemical tests and uses of (6)
i) Vinca ii) Nuxvomica iii) Opium
- OR**
- c) Write the biological source, chemical tests and uses of (5)
i) Nuxvomica ii) Belladonna
d) Write the diagnostic features of (9)
i) Kurchi ii) Rauwolfia iii) Datura
- 2 a) Write the pharmacological study of Senna (8)
b) Write the biological source, chemistry and therapeutic uses of (6)
i) Liquorice ii) Ashwaandha
- OR**
- c) Write the biological source, chemistry and therapeutic uses, chemical constituents and adulterants of (10)
i) Gymnema ii) Aloe
d) Write the biological source, chemical tests and uses of (4)
i) Amni ii) Squill
- 3 a) Describe the isolation and estimation of sennosides from Senna. (8)
b) Write the biological source, chemical constituents and uses of (6)
i) amla ii) Tulsi
- OR**
- c) Write the isolation and estimation of quinine from Cinchona. (8)
d) Write the biological source, chemical constituents, uses, and adulterants of (6)
i) Cinnamon ii) Artemisia
- 4 a) Write about (8)
i) Organogenesis ii) Clonal propagation
b) Discuss the applications of plant tissue culture in production of secondary metabolites. (6)
- OR**
- c) Write a note on (14)
i) Biotransformation ii) Immobilization
- 5 a) Discuss the problems involved in standardization of herbal medicines with examples. (6)
b) Write the different dosage forms of ayurveda and explain method of preparation of Bhasmas and Asawas. (8)
- OR**
- c) Give an informative note on discovery of new drugs from natural sources. (5)
d) Describe the method of preparation of (9)
i) Churnas ii) Hritams iii) Kasayams
