

**Final Year B.Pharm Degree Supplementary Examinations**  
**November 2018**  
**Pharmacognosy – III**  
**(2012 scheme)**

**Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Draw diagrams wherever necessary.

**Essays****(3x10=30)**

1. Give the chemistry and biosynthesis of a laxative drug.
2. Define conservation. Explain in detail different methods adopted for the conservation of endangered medicinal plants.
3. Briefly discuss the world wide trade in medicinal plant derived products of digitalis and cinchona

**Short notes****(14x5=70)**

4. Define patent and steps for filing patent in India.
5. Discuss the application of plant tissue culture in the production of secondary metabolites with one example
6. Define cosmetics. Give the biological source and chemical constituents of any two drugs used in hair care
7. Define and discuss the stereo isomerism of cinchona alkaloids
8. Probiotics and its significance as health foods
9. Biogenesis of therapeutically important lignans.
10. Extractive values and swelling index with its significance.
11. Give Chemistry of Cardenolides
12. Germ plasm conservation and its importance.
13. Explain briefly the various macronutrients and their role in the preparation of culture media
14. Give the Chemistry and Pharmacological activity of Hyoscyamine
15. Transgenic plants and its significance
16. Briefly discuss different types of adulteration
17. Discuss the worldwide trade of Aloe and liquorice

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