

# **2010 Scheme**

**QP CODE:403006**

**Reg. No: .....**

## **Final Year B.Pharm Degree Supplementary Examinations December 2021**

### **Pharmacognosy – III**

**Time: 3 Hours**

**Total Marks: 100**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers*
- *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw Diagrams wherever necessary*

**Essays**

**(3x10=30)**

1. Explain with examples how the secondary metabolites of pharmaceutical importance are produced through tissue culture technique.
2. What are cardiac glycosides. Discuss the chemistry and biosynthesis of any two cardiac glycoside compounds you have studied.
3. Discuss various methods of adulteration of crude drugs. How the crude drugs are evaluated based on WHO guidelines.

**Short notes**

**(14x5=70)**

4. Export potential of medicinal and aromatic plants of India.
5. Role of NMR in the spectral analysis of phytoconstituents.
6. Biosynthesis of quinine
7. Development and evaluation of any one herbal formulation
8. Institutions involved in work on medicinal and aromatic plants in India.
9. A brief summary of importance of herbal cosmetics
10. Mention the applications of gene mapping in plants with examples
11. Biogenesis of a medicinally important flavonoid compound.
12. Discuss the chemistry and pharmacological activity of an indole alkaloid.
13. Endangered plant species of India.
14. Macro and micro nutrients in plant tissue culture.
15. Herbaceous health foods as antioxidants.
16. Chemistry of triterpenoids.
17. Pharmacological activity of morphine and ergot alkaloids

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