QP CODE:403006 (OLD SCHEME) Reg. No:

Final Year B.Pharm Degree Supplementary Examinations May 2018 Pharmacognosy – III (2010 scheme)

Time: 3 Hours

- Answer all Questions.
- Draw diagrams wherever necessary. •

Essays

- 1. Discuss the chemistry and biosynthesis of digitoxin
- 2. Enlist and explain the different spectral methods with its significance used for the characterization of natural compound
- 3. Define and explain the need for conservation. Explain in detail the in-situ conservation of the biodiversity. Add a note on threats to biodiversity.

Short notes

- 4. Give the biological source, chemical constituents and uses of vinca and hyocyamus
- 5. Discuss the application of plant tissue culture in the production of secondary metabolites with one example
- 6. Define cosmetics. Briefly describe hair care herbal formulations
- 7. With biological source discuss the stereo isomerism of cinchona alkaloids
- 8. Prebiotics and their significance as health foods
- 9. Briefly describe the evaluation of hemolytic activity as per WHO guidelines.
- 10. Explain the biogenesis of medicinally important monoterpene
- 11. Give the chemistry and uses of ergot alkaloids
- 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 biological source, chemistry and pharmacological activity of morphine.
- 15. Transgenic plants and their significance
- 16. Briefly discuss different types of adulteration
- 17. With the help of diagram explain in detail the various growth phases of callus in culture

(3x10=30)

Total Marks: 100

(14x5=70)