

**FACULTY OF PHARMACY****M. Pharmacy (Pharmacognosy) II- Semester (PCI) (Supplementary) Examination,****January 2020****Subject: Advanced Pharmacognosy - II****Time: 3 Hrs****Max Marks: 75****Note: Answer Any Five Questions. ALL Questions carry Equal Marks.**

- 1 Explain the role of antioxidants. List the *in vitro* evaluation techniques for antioxidants and describe any three methods in detail. 15
- 2 Write the chemistry and IP Monograph of *Coleus forskholii*. 15
- 3 Write note on: 3x5
  - a) DNA Finger printing techniques
  - b) Detections of heavy metals
  - c) Chemistry and Estimation of Curcumin
- 4 Describe the role of herbal drugs in the treatment of diabetes. Explain any two methods of *in vivo* anti diabetic screening techniques. 15
- 5 Define adulteration, substitution and deterioration. Write abt the sampling procedure, determination of foreign matter and microbial contamination in herbs. 15
- 6 Give an informative note on 3x5
  - a) Pharmacokinetics of herbal drugs
  - b) Ethno pharmacology
  - c) Ethno botany.
- 7 a) Write abt the methods of toxicity studies as per OECD guidelines. 6+9  
b) Describe any two *in vivo* antiinflammatory screening techniques.
8. a) Write abt the efficacy of herbal drugs with respect to modern medicine. 6+9  
b) Write about screening technique for Hepatoprotective activity.

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