

PHARMACOGNOSY - III

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. What is totipotency in tissue culture. Describe the establishment of static culture. Mention the various factors that influence the production of secondary metabolites.
2. Explain the biogenesis of flavonoids and add a note on the chemistry of any two flavonoids.
3. Define adulteration of crude drugs. Explain the WHO guidelines for the evaluation of crude drugs.

Short notes

(14x5=70)

4. Herbs having skin care properties
5. Biogenesis of atropine
6. Chemistry of quassinoids
7. Plant based industries in Tamil nadu and Kerala.
8. Methods of conservation of germplasm
9. Physical methods of evaluation of herbal formulations
10. Health foods from plant source
11. Chemical properties of morphine
12. Role of UV spectroscopy in the identification of simple molecules of natural origin
13. Biosynthesis of monoterpenes of medicinal importance
14. Chemistry of diosgenin and sarasapogenin
15. Stereoisomerism of ergot alkaloids
16. Worldwide trade of taxol
17. Methods of gene transfer in plants
