

Third Year B.Pharm Degree Supplementary Examinations – January 2017

**Pharmacognosy II**

**(2012 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.

**Essay**

**(3x10=30)**

1. what are the applications of TLC, HPTLC and column chromatography in evaluation of herbal drugs.
2. Describe the pharmacognostical report on digitalis.
3. Discuss the novel medicinal agents from marine source.

**Short notes**

**(14x5=70)**

4. Sources, chemical constituents and uses of an imidazole alkaloid containing drug.
5. How Bontrager's test and Keller Killiani test are performed. Mention the type of constituents, these tests are used.
6. Draw neat labeled diagram to show the microscopical features of cinchona.
7. Botanical source, constituents, marketed formulations and uses of amla and sida.
8. Mention the constituents and uses of veratrum and kurchi
9. Macroscopy, chemical constituents and uses of a leaf drug containing tropane alkaloids.
10. What are the applications of radioactive isotopes in elucidation of biogenetic pathways
11. Contact allergens from plant sources.
12. Chemotaxonomical significance of flavanoids and phenolic compounds
13. Sources and methods of preparation of papain and bromelain
14. Source, chemical constituents and uses of spirulina
15. Enumerate the alkaloids of ergot, catheranthus and ephedra. Mention the chemical classes to which they belong.
16. Distinguish between coffee and tea with respect to the sources, morphological features and chemical characters.
17. Shikimic acid pathway.

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