

**Third Year B.Pharm(Ayurveda) Degree Examinations, October 2014**

**Chemistry of Natural products**

**Time : 3 Hours**

**Total Marks:100**

- **Answer all questions**

**Essays:**

**(2x10=20)**

1. Explain the constitution and synthesis of atropine.
2. Classify terpenoids on the basis of number of isoprene units present. Explain isoprene and special isoprene rule with its configuration.

**Short notes:**

**(10x5=50)**

3. Nomenclature of alkaloids.
4. Chemistry of anabolic steroids.
5. Define and classify enzymes.
6. Classify purines with examples.
7. Chemical methods for the determination of molecular weight of cellulose.
8. Commercial method for the synthesis of ascorbic acid.
9. Irradiation process of ergosterol.
10. Classify vitamins with suitable examples with structure.
11. Chemistry of cardiac glycosides.
12. Chemistry of menthol and cineol.

**Answer briefly:**

**(10x3=30)**

13. Biological importance of thyroid hormones.
14. Mention uses of caffeine and theophylline.
15. Classify prostaglandin with example.
16. Biological origin and physiological role of estrogens.
17. Cyclodextrin
18. What are cardenolides with examples.
19. Pharmaceutical importance of carbohydrate.
20. Classify peptides.
21. Nucleotides and nucleosides.
22. Progesterone derivatives as oral contraceptive pills.

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