

**QP CODE: 303008**

**Reg. No.....**

**Third B.Pharm (Ayurveda) Degree Examinations October 2018**

**Chemistry of Natural products**

**Time: 3 Hours**

**Total Marks: 100**

- **Answer all questions**

**Essays:**

**(2x10=20)**

1. Define vitamin and classify them.
2. Define and classify the alkaloids with their structures and give suitable examples

**Short notes:**

**(10x5=50)**

3. The physiological role of ascorbic acid.
4. Conjugated proteins.
5. Synthesis of riboflavin.
6. Pharmaceutical importance of carbohydrates.
7. Constitution of menthol and thymol.
8. Vasopressin.
9. Synthesis of vitamin D.
10. General classification of carbohydrates.
11. Nucleotides and nucleosides.
12. What are prostaglandins. Explain it through suitable structures

**Answer briefly:**

**(10x3=30)**

13. Give general methods for determining nature of nitrogen in alkaloids.
14. Diosgenin.
15. Give a general method of determination of ephedrine.
16. General note on strophanthus.
17. Importance of aglycone part with their SAR.
18. Synthesis of thiamine.
19. Differentiate digitalis purpurea linn and digitalis lanata Ehrh.
20. General chemical tests to detect carbohydrates.
21. Skeletal structure of carotenes.
22. Medicinal importance of theobromine.

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