

QP CODE: 303008

Reg. No.....

**Third Professional B.Pharm (Ayurveda) Degree Regular/Supplementary
Examinations April 2021
Chemistry of Natural products**

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*

Essays:

(2x10=20)

1. Outline the synthesis of Atropine
2. Classify the hormones of the adrenal cortex. Discuss the structure activity relationship of corticosteroid analogues

Short notes:

(10x5=50)

3. Explain the constitution of Riboflavin
4. Enumerate the important cellulose derivatives and give their pharmaceutical applications.
5. Classify Alkaloids with suitable examples.
6. Outline the synthesis of Pyridoxine.
7. Explain α – helices and β – sheets in Protein structure
8. Give the classification and nomenclature of prostaglandins.
9. Explain the general principle behind the extraction of alkaloids.
10. Discuss the chemistry of Thyroxine sodium.
11. Explain the Inter – relationship between estrone, estradiol and estriol
12. Outline the synthesis of amygdalin.

Answer briefly:

(10x3=30)

13. Thiochrome test.
14. Murexide test.
15. Source of digoxin.
16. Classify the terpenoids. Give examples.
17. Mention three uses of progesterone.
18. Describe the structural features of insulin.
19. Explain mutarotation in glucose
20. State the basic Isoprene rule and the special Isoprene rule
21. Discuss the biological significance of the nucleic acids.
22. Beta carotene. How is it converted into vit A
