

Assignment for B.Sc. Sem VI Chemistry (Major 1) 2025-26

Elective Paper: Chemistry of Natural Products

Assignment Submission Date: 25.03.2026

M.M. 25

S. No.	Topics	Roll No.
1	Alkaloids <ul style="list-style-type: none">• Introduction, Occurrence, medicinal importance and general methods of structure elucidation of alkaloids.• Structure elucidation of papaverine and quinine.	Bio (2330014010014 — 4010134) Math (2330014020005 — 4020026)
2	Terpenoids <ul style="list-style-type: none">• Introduction, occurrence and classification of terpenoids and structure determination of menthol and zingiberene	Bio (2330014010140 — 4010205) Math (2330014020029 — 4020040)
3	Vitamins <ul style="list-style-type: none">• Classification, sources, biological importance of vitamins and structure determination of vitamin A, B1, B2	Bio (2330014010218 — 4010252) Math (2330014020041 — 4020075)
4	Steroids <ul style="list-style-type: none">• Introduction, occurrence, importance of steroids, physiological action, stereochemistry and structure determination of cholesterol.• Structure and semi synthesis of estrogen, testosterone and progesterone	Bio (2330014010255 — 4010333) Math (2330014020094 — 4020097)

5	<p>Carbohydrates</p> <ul style="list-style-type: none"> • Classification and nomenclature, configuration and conformation of monosaccharides, Erythro and threo diastereomers, mechanism of osazone formation, interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses. • Formation of glycoside, ethers and esters. Determination of ring size of monosaccharides. Cyclic structure of D (+) glucose. Mechanism of mutarotation, structure of ribose and deoxyribose. • An introduction to disaccharides (maltose, sucrose, lactose) and polysaccharide/starch and cellulose without involving structure determination. 	<p>Bio (2330014010343 — 4010372) Math (2330014020110 — 4020125)</p>
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- Note:**
- 1. Students have to select assignment topics as per their Roll No.**
 - 2. This assignment is only for B.Sc. Sem VI (Major 1) chemistry students**
 - 3. Students are instructed to use a fair register copy for writing**
 - 4. Students must bring their previous semester marksheets at the time of assignment submission**