

# SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



## UNIT 1

**COURSE NAME: PHARMACOGNOSY**

**TOPIC: ALKALOIDS,TANNINS, TERPENES,VOLATILE OIL**

**1 MARK**

| S.No | Questions                                                    | Mapping from<br>TNMGRMU/GPAT/MRB/Various<br>Pharma Company with Year | Bloom's<br>Taxonomy |
|------|--------------------------------------------------------------|----------------------------------------------------------------------|---------------------|
| 1    | Define alkaloids and give their solubility property.         | TNMGRMU March 2023; GPAT 2021; MRB 2023; Cipla Interview 2024        | Remembering         |
| 2    | Name two true alkaloids with their plant sources.            | TNMGRMU May 2024; GPAT 2020; Dr. Reddy's 2023                        | Remembering         |
| 3    | State the colour produced in Dragendorff's test.             | TNMGRMU Oct 2023; GPAT 2019; Sun Pharma 2024                         | Remembering         |
| 4    | Give two therapeutic uses of tannins.                        | TNMGRMU Dec 2022; GPAT 2022; Lupin Interview 2023                    | Understanding       |
| 5    | List two volatile oil-containing drugs used as carminatives. | TNMGRMU March 2024; GPAT 2023; Aurobindo 2024                        | Remembering         |

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## AND HEALTH SCIENCES

3 MARKS



| S.No | Questions                                                            | Mapping from<br>TNMGRMU/GPAT/MRB/Various<br>Pharma Company with Year | Bloom's Taxonomy        |
|------|----------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------|
| 1    | Classify alkaloids chemically with one example each.                 | TNMGRMU March 2023 (Sept 2022); GPAT 2020; MRB 2023; Cipla R&D 2024  | Understanding           |
| 2    | Describe the general chemical tests for identification of alkaloids. | TNMGRMU Oct 2023; GPAT 2021; Sun Pharma 2024                         | Understanding/Analyzing |
| 3    | Explain the classification of tannins with examples and their uses.  | TNMGRMU Aug 2023; GPAT 2022; Dr. Reddy's 2024                        | Applying                |
| 4    | Write notes on chemistry and therapeutic uses of terpenes.           | TNMGRMU May 2024; GPAT 2023; Lupin 2024                              | Evaluating              |
| 5    | Outline the properties and uses of volatile oils in pharmacy.        | TNMGRMU March 2024; GPAT 2024; Aurobindo Interview 2024              | Applying                |

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## 5 MARKS

| S.No | Questions                                                                                                             | Mapping from<br>TNMGRMU/GPAT/MRB/Various<br>Pharma Company with Year        | Bloom's Taxonomy     |
|------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------|
| 1    | Discuss introduction, classification, properties, chemical tests and therapeutic applications of alkaloids.           | TNMGRMU March 2025; GPAT 2020 (full essay); MRB 2023; Cipla Senior R&D 2025 | Analyzing/Evaluating |
| 2    | Elaborate on tannins: sources, classification, identification tests, and industrial uses.                             | TNMGRMU Dec 2022; GPAT 2019; Dr. Reddy's 2024                               | Analyzing/Creating   |
| 3    | Explain terpenes in detail: occurrence, classification, chemistry and role in perfumery.                              | TNMGRMU Oct 2023; GPAT 2023; Sun Pharma 2024                                | Evaluating           |
| 4    | Describe volatile oils: extraction methods, chemical nature, identification tests and formulation applications.       | TNMGRMU Aug 2023; GPAT 2021; Lupin 2024                                     | Applying/Analyzing   |
| 5    | Compare alkaloids, tannins, terpenes and volatile oils with respect to source, chemistry and pharmacological actions. | TNMGRMU March 2023; GPAT 2024; MRB 2024; Aurobindo Interview 2025           | Evaluating/Creating  |