

“Solution-Pharmacy”
Pharmacognosy & Photochemistry II

Practice Question Paper (Unit-02)

Secondary Metabolites

Introduction-Composition-Chemistry-Chemical Classes-Biosources
B.Pharmacy- 5th Semester (New PCI Syllabus)

Note- All these questions are made by “Solution-Pharmacy” which is based on our video lecture. Our objective for making these practice questions is to prepare students for their examination. **Total marks is- 75**

Section 01- Multiple choice questions. (Attempt any 20 questions) 01marks each

1. Tropane alkaloid present in

- A. Vinca
- B. Belladonna
- C. Rauwolfia
- D. Opium

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2. The drug which contains Indole alkaloid

- A. Rauwolfia
- B. Aloe
- C. Artemisia
- D. Clove

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3. Eugenol which is present as chief active constituent in

- A. Clove
- B. Fennel
- C. Gentian
- D. Belladonna

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4. The chief active constituent present in Rauwolfia

- A. Reserpine
- B. Serpentine
- C. Ajmaline
- D. Reserpinine

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5. **The important precursor for the production of steroidal drugs is**

- A. Gitoxin
- B. Diosgenin
- C. Digoxin
- D. Digitoxin

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6. **Botanical name of Indian Senna is**

- A. *Cassia angustifolia*
- B. *Cassia acutifolia*
- C. *Cassia fistula*
- D. *Cassia indica*

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7. **Kellar Killiani test is specific for**

- A. Diosgenin
- B. Digitoxigenin
- C. Steroid
- D. Digitoxose sugar

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8. **Abietic acid is chief constituent of**

- A. Asafoetida
- B. Benzoin
- C. Colophony
- D. Cannabis

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9. **Which of the following statement for alkaloid is correct**

- A. Physiologically active
- B. Heterocyclic ring with at least one nitrogen
- C. Basic in nature
- D. All above

10. Opium alkaloids present as salt of

- A. Meconic acid
- B. Oxaloacetic acid
- C. Tartaric acid
- D. Formic acid

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11. Chota-chand is synonyms of

- A. Opium
- B. Rauwolfia
- C. Vinca
- D. Belladonna

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12. Barbaloin (anthraquinone glycoside) present in aloe is a type of

- A. C- Glycoside
- B. O- Glycoside
- C. S- Glycoside
- D. N-Glycoside

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13. Iridoids are the type of

- A. Monoterpenoid
- B. Diterpenoid
- C. Triterpenoid
- D. Tetraterpenoid

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14. Goldbeater's skin test is used to detect the presence of

- A. Alkaloids
- B. Glycosides
- C. Tannin
- D. Resin

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15. Chief active constituent present in coriander

- A. Eugenol
- B. Fenchone
- C. Linalool
- D. Menthol

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16. Family of Cinnamon

- A. Apocynaceae
- B. Liliaceae
- C. Leguminosae
- D. Lauraceae

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17. Carotenoids are

- A. Monoterpenoid
- B. Diterpenoid
- C. Triterpenoid
- D. Tetraterpenoids

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18. Drug used for treating cerebral malaria

- A. Gentisin
- B. Artemisinin
- C. Amygdalin
- D. Barbaloin

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19. Paclitaxel obtained from various taxus species (*Taxus brevifolia*) used for treatment of

- A. Diabetes
- B. Cancer
- C. Hypertension
- D. Malaria

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20. Which of the following is not the example of oleo gum resin

- A. Benzoin
- B. Guggul
- C. Asafoetida
- D. Myrrh

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Section 2- Long answer type questions (Answer any 02) 10 marks each

1. Define Volatile oil. Write the composition, chemistry and general method of extraction of Volatile oil.
2. What are Alkaloids? Write the chemistry, analysis, general method of extraction and therapeutic uses of alkaloids.
3. Define Glycosides. Write the composition, chemistry and general method of extraction of Glycosides.

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Section 3- Short answer type questions (Any 07) 05 marks each

1. Write the biological source, chemical constituents, uses, and commercial application of rauwolfia and belladonna.
2. Define flavonoids. Write brief introduction and chemistry of lignan.
3. What is cardiac glycoside? Write the difference between cardenolides and bufadienolides.
4. Write biosources, chemical constituent, uses, commercial application and identification test of digitalis.
5. Write the biological source, constituent, and uses of aloe and senna.
6. What are resins? Write the Biosources, chemical constituent, uses, and identification test of Benzoin and asafoetida.
7. Write the biosources, chemical constituents, uses, and commercial application of Dioscorea and Liquorice.
8. Write the biosources, chemical constituents, uses, and commercial application of Clove and Mentha.
9. Write brief note on carotenoids.