

B. Pharm. CBCS Sem-V
BP504T - Pharmacognosy and Phytochemistry-II

P. Pages : 3

Time : Three Hours



GUG/W/22/13182

Max. Marks : 75

- Notes :
1. Diagrams and Chemical equation should be given wherever necessary.
 2. Illustrate your answers wherever necessary with the help of neat sketches.
 3. All questions are compulsory.

1. Multiple Choice Questions.

**1x20
=20**

- 1) The precursor of Indole alkaloids is
 - a) Ornithine
 - b) Phenylalanine
 - c) Tryptophan
 - d) N-methionine
- 2) Pyrrole and pyridine ring is present in
 - a) Atropine
 - b) Digitoxin
 - c) Vinblastine
 - d) Quinidine
- 3) Eugenol is present in
 - a) Clove
 - b) Fennel
 - c) Gentian
 - d) Belladonna
- 4) Digitalis is cultivated in
 - a) Andhra Pradesh
 - b) Bihar
 - c) Kashmir
 - d) Kerala
- 5) Opium is used as
 - a) Sedative
 - b) Stimulant
 - c) Narcotic
 - d) Diaphoretic
- 6) Aloes is used as
 - a) Cardiac tonic
 - b) Sedative
 - c) Hypnotic
 - d) Purgative
- 7) Volatile oils are also known as
 - a) Essential oils
 - b) Ethereal oils
 - c) Both (a) and (b)
 - d) None
- 8) Caffeine is a
 - a) CNS stimulant
 - b) Diuretics
 - c) Both a and b
 - d) None
- 9) Geometric Isomers of citral is
 - a) Geranial
 - b) Neral
 - c) Geranial and Neral
 - d) None
- 10) Examples of proto alkaloid.
 - a) Morphine
 - b) Reserpine
 - c) Ephedrine
 - d) None

- 11) Artemisin is a
 - a) Monoterpenes
 - b) Diterpenes
 - c) Sesquiterpene
 - d) Sesquiterpene lactone
- 12) Kellar Killani test specific for
 - a) Aexoscs
 - b) Deoxy sugars
 - c) Disaccharide
 - d) Indole
- 13) Phenanthrene alkaloids are grouped along with
 - a) Quinoline
 - b) Isoquinoline
 - c) Tropanic
 - d) Indole
- 14) Senna leaf belongs to the family of
 - a) Apocyanaceae
 - b) Leguminosae
 - c) Rutaceae
 - d) Rubiaceae
- 15) Quinindine acts as
 - a) Cardiac stimulant
 - b) Cardiac depressant
 - c) Emetic
 - d) None of the above
- 16) Absorption is the principle of separation in
 - a) Paper chromatography
 - b) GLC
 - c) Ion exchange chromatography
 - d) Thin layer chromatography
- 17) The use of chromatography technique is
 - a) Structure Elucidation
 - b) Crystallisation
 - c) Separation
 - d) Extraction
- 18) Mass spectra is usually a
 - a) Band spectra
 - b) Positive ion spectra
 - c) Absorption spectra
 - d) Emission spectra
- 19) The chromatography was first developed by a
 - a) Chemist
 - b) Analyst
 - c) Botanist
 - d) Zoologist
- 20) Fluorimetric analysis is used in estimation of
 - a) Sennosides
 - b) Thymol
 - c) Quinine
 - d) Morphine

2. Long answer questions solve **any two**.

**2x10
=20**

- 1) Write the introduction of basic metabolic pathway and explain in brief about shikimic acid pathway.
- 2) Discuss the method of extraction and the recent techniques of Isolation of phytoconstituents.
- 3) Define and give the chemical classification of alkaloid. Explain the Isolation of cinchona alkaloid.

3. Short answer questions solve any seven.

**7x5
=35**

- 1) Write the chemical test which is used for the identification of alkaloids.
- 2) Write the techniques in short which is used for the investigation of biosynthetic pathway.
- 3) Write down the modern method of extraction.
- 4) Write the extraction and Isolation method for the caffeine.
- 5) Define volatile oils and write the biological source of clove and fennel.
- 6) Write the note on Isolation and purification of crude drug.
- 7) Write down the method of separation and explain in short thin layer chromatography.
- 8) Write the Identification test and estimation of Atropine.
- 9) Write the biological source of Vinca, Belladonna and Opium.
