

B. Pharm. (CBCS Pattern) Semester - V
BP504T - Pharmacognosy & Phytochemistry-II

P. Pages : 3

Time : Three Hours



GUG/S/23/13182

Max. Marks : 75

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- Notes : 1. Illustrate your answers wherever necessary with the help of neat sketches.
2. All questions are compulsory.

- 1. Multiple Choice Questions. **1x20**
=20**
- 1) The racemic form of hyoscyamine is known as
 - a) Hyoscine
 - b) Oscine
 - c) Atropine
 - d) Ecogonine

 - 2) Anthranilic acid is an immediate precursor of formation of
 - a) Tyrogine
 - b) Tryptophas
 - c) Orhithine
 - d) Methiodine

 - 3) Steroidal saponins are biosynthesized via
 - a) Shikimic acid pathway
 - b) Calvin's cycle
 - c) Tyrosine
 - d) Mevalonic acid pathway

 - 4) The drug which contains alkaloids
 - a) Rauwolfia
 - b) Aloes
 - c) Artemisia
 - d) Clove

 - 5) Ferula foetida is the botanical name of
 - a) Benzoin
 - b) Myrrh
 - c) Asafoetida
 - d) Ginger

 - 6) The best locating agent for amino acids after they are separated is
 - a) Sulphuric acid
 - b) Ammonia
 - c) Hinhydrine
 - d) Sodium Hydroxide

 - 7) The study of radio frequency radiation by the nuclei is known as
 - a) NMR
 - b) Mass
 - c) Flame photometry
 - d) Voltametry

 - 8) HPLC technique is the modification of
 - a) Liquid chromatography
 - b) TLC
 - c) Electrophoresis
 - d) Paper chromatography

 - 9) General test for alkaloids with mayer's reagent is not given by
 - a) Strychnine
 - b) Reserpine
 - c) Quinine
 - d) Caffeine

 - 10) Legal test is answered by
 - a) Cardenolides
 - b) Butadienolides
 - c) Proteins
 - d) None of above

- 11) Senna leaf belongs to the family of
 - a) Apocyanaceae
 - b) Leguminosae
 - c) Rutaceae
 - d) Rubiaceae
- 12) Quinidine – sulfate is used as
 - a) Anti – malarial
 - b) Anti arrhythmic
 - c) Antihypertensive
 - d) Antiulcer
- 13) Glycyrrhetic acid is a
 - a) Tricyclic triterpentic acid
 - b) Pentacyclic triterpentic acid
 - c) Both a and b
 - d) None
- 14) Example of protoalkaloid.
 - a) Morphine
 - b) Reserpine
 - c) Ephedrine
 - d) None
- 15) Cassia is also known as
 - a) African Cinnamon
 - b) Ceylon Cinnamon
 - c) Indian Cinnamon
 - d) Chinese Cinnamon
- 16) Colophony is a
 - a) Ester resin
 - b) Gum resin
 - c) Resin alcohol
 - d) Resin
- 17) Aloes is used as
 - a) Cardiac tonic
 - b) Sedative
 - c) Hypnotic
 - d) Purgative
- 18) Solanaceous alkaloids are present in
 - a) Vinca
 - b) Belladonna
 - c) Rauwolfia
 - d) Opium
- 19) The important precursor for the production of steroidal drug is
 - a) Dioscin
 - b) Diosgenin
 - c) Digoxin
 - d) Digitoxin
- 20) Separation of constituents take place in paper chromatography.
 - a) Adsorption
 - b) Absorption
 - c) Partition
 - d) Polarity

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

**2x10
=20**

- 1) Discuss in detail application of spectroscopic methods in the evaluation of phytoconstituents.
- 2) What are glycoside? Discuss about their properties and explain in detail one of them.
- 3) Write down the Industrial production estimation and utilization of vincristine and vinblastine.

3. Short answer questions solve any seven.

**7x5
=35**

- 1) Write the chemical test for the glycoside.
- 2) Explain High performance thin layer chromatography.
- 3) Write the short note on phenylpropanoids and flavonoids and write biological source of Tea.
- 4) Define resins? Discuss in short Benzoin and asafoetida.
- 5) Write down the extraction and Isolation procedure for the cinnamon bark.
- 6) Write down the application of spectroscopy.
- 7) Write the biological source and Identification test for Dioscorea.
- 8) Write the methods of tracer techniques.
- 9) Write the modern method of extraction.
