

B.Pharm Second Year (CBCS Pattern) Sem-IV  
**BP-405T - Pharmacognosy & Phytochemistry-I**

P. Pages : 3

Time : Three Hours



**GUG/W/22/11989**

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. 20**

- 1) The main functions of stomata is
  - a) Exchange of food
  - b) Exchange of gases
  - c) Plant growth
  - d) Preparation of food
- 2) Palisade ratio it is the average number of palisade cells, beneath one----- cell.
  - a) Epidermal cell
  - b) Subsidiary cell
  - c) Guard cell
  - d) Palisade cells
- 3) The ash value is helpful in determining the
  - a) Quality of drug
  - b) Purity of drug
  - c) Quality and Purity of drug
  - d) Quantity of drug
- 4) Optical rotation is measured by
  - a) Viscometer
  - b) Polarimeter
  - c) Microtome
  - d) Opticometer
- 5) Generally clove is adulterated with
  - a) Mother clove
  - b) Clove stalks
  - c) Mother clove and clove stalks
  - d) None of above
- 6) MS media stand for
  - a) Gautheret medium
  - b) Murashige medium
  - c) Hallers medium
  - d) Erikson medium
- 7) Panchamahabhuta and Tridosha theory is related to
  - a) Homoeopathy
  - b) Aromatherapy
  - c) Unani System
  - d) Ayurveda
- 8) The concept of proving and prover is related to
  - a) Ayurveda
  - b) Homoeopathy
  - c) Aromatherapy
  - d) Chinese system
- 9) Who coined the term Aromatherapy?
  - a) Rene-maurice Gattefosse in 1928
  - b) Theophrastus in 1930
  - c) Caventou in 1925
  - d) Hooker in 1910

- 10) Hemp and jute are:
  - a) Plant fibres
  - b) Animal fibres
  - c) Mineral fibres
  - d) Synthetic fibres
- 11) Which alkaloid called as Amino alkaloids.
  - a) True alkaloids
  - b) Pseudo alkaloids
  - c) Proto alkaloids
  - d) All of the above
- 12) Test for cardiac glycoside.
  - a) Legals test
  - b) Balgets test
  - c) Raymond test
  - d) All of the above
- 13) Thalleoquin test is used for.
  - a) Atropine
  - b) Strychnine
  - c) Quinine
  - d) Vincristine
- 14) Aloin from aloe contain which type of glycoside.
  - a) S-glycoside
  - b) N-glycoside
  - c) O-glycoside
  - d) C-glycoside
- 15) Saponin glycoside shows one of the following property.
  - a) Laxative
  - b) Astringent
  - c) Foaming
  - d) Anticonvulsant
- 16) Flavonoids are biosynthetically derived from.
  - a) Shikimic acid pathway
  - b) Mevalonic acid pathway
  - c) Acetate pathway
  - d) None of the above
- 17) Which test is performed for the identification of purine alkaloids?
  - a) Vitali Morin test
  - b) Van-Urk's reagent
  - c) Murexide test
  - d) Bornstrager test
- 18) Mevalonic acid pathway is also known as-----
  - a) HMG CoA Reductase pathway
  - b) Acetate Mevalonate pathway
  - c) Isoprenoidal pathway
  - d) All of the above
- 19) Dragendorff's reagent does not give a positive test with
  - a) Morphine
  - b) Codeine
  - c) Caffeine
  - d) Emetine
- 20) Precursor for the biosynthesis of Tropane alkaloids is-
  - a) Ornithine
  - b) Tyrosine
  - c) Leucine
  - d) Lysine

**2.** Solve the following **any two**. **20**

- a) What is drug evaluation? Enumerate its different types with examples of each category.
- b) What is Plant Growth Regulator? Classify it along with its role in diagrammatic representation.
- c) Classify and explain the factors affecting cultivation of medicinal plants along with its merits and demerits.

**3.** Solve the following **any seven**. **35**

- a) Note on history and scope of Pharmacognosy.
- b) Note on morphological classification of crude drug with examples.
- c) Define adulteration. Mention its different types along with example of each category.
- d) Note on Leaf constants.
- e) Note on techniques of propagation of crude drugs.
- f) Note on Tannin and its drugs.
- g) Explain in detail about Alkaloids.
- h) Elaborate the role of Papain as enzyme.
- i) Novel medicinal agents from Marine source.

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