

B.Pharm. - II (CBCS Pattern) Semester - IV
BP405T - Pharmacognosy & Phytochemistry-I

P. Pages : 3

Time : Three Hours



GUG/S/23/11989

Max. Marks : 75

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

- 1. Multiple Choice Questions. 20x1
=20**
- i) The plant hormone which shows specific effect on the cell division is:
- | | |
|-----------------|-------------------|
| a) Auxins | b) Absciscic acid |
| c) Cytotokinins | d) Ethylene |
- ii) Analepta and Allopolyploids are polyploids derived from
- | |
|---|
| a) Single parental species genome |
| b) More than one parental species genome |
| c) Plant with haploid number of chromosomes |
| d) A plant with diploid number of |
- iii) All the following are leaf constant Except:
- | | |
|------------------------|------------------------------|
| a) Vein - islet number | b) Vein - termination number |
| c) Stomatal number | d) Leaf fiber |
- iv) In morphological evaluation, drugs are evaluated through
- | | |
|----------------------------|----------------------------|
| a) Chemical constituent's | b) Therapeutic uses |
| c) Histological characters | d) Organoleptic characters |
- v) Who is the father of medicine
- | | |
|-----------------------------|--------------------------|
| a) Hippocrates (460-360BC) | b) Aristotle (384-322BC) |
| c) Theophrastus (370-287BC) | d) Dioscorides (40-80AD) |
- vi) Drugs like Rauwolfia, and Ephedra having antihypertensive action are grouped together irrespective of their parts used or their phytoconstituents. It is an example of
- | | |
|-------------------------------|-----------------------------------|
| a) Chemical classification | b) Alphabetical classification |
| c) Taxonomical classification | d) Pharmacological classification |
- vii) Indole alkaloid derived from the precursor of
- | | |
|--------------|---------------|
| a) Tyrosine | b) Tryptophan |
| c) Ornithine | d) Neopine |
- viii) Which of the following is the factor affecting cultivation of medicinal plants?
- | | |
|-----------------------------|---------------------|
| a) Altitude and temperature | b) Rainfall |
| c) Soil | d) All of the above |
- ix) Drug evaluation means
- | |
|---|
| a) Confirmation of identity |
| b) Determination of purity |
| c) Confirmation of identity and determination of its purity |
| d) Debasement of an article. |

- x) Palisade ratio it is the average numbers of palisde cells, beneath one ----- cell.
- Epidermal cell
 - Subsidiary cell
 - Guard cell
 - Palisade cells
- xi) The biological source for Indian gum is
- Cyamopsistetragonoglobules
 - Astragalusgammifer
 - Acacia Arabica
 - Acacia Senegal
- xii) Aromatheraphy provide the treatment by
- Tannin
 - Alkaloid
 - Resine
 - Essential oil
- xiii) MS media stand for
- Gautheret medium
 - Murashige medium
 - Hallers medium
 - Erikson medium
- xiv) Gold beater skin test used for identification of
- Alkaloids
 - Glycoside
 - Tannins
 - Flavonoids
- xv) Tropane alkaloid is derived from
- Tyrosine
 - Tryptophan
 - Ornithin
 - Neopinone
- xvi) Tissue and cell cultured in a liquid medium (without agar) produce a
- Callus culture
 - Inorganic culture
 - Protoplast culture
 - Suspension culture
- xvii) Which alkaloid called as Amino alkaloids
- True alkaloids
 - Protoalkaloids
 - Pseudo alkaloids
 - All of the above
- xviii) Which of the following is the factor affecting cultivation of medicinal plants?
- Altitude and temperature
 - Rainfall
 - Soil
 - All of the above
- xix) Drug evaluation means
- Confirmation of identity
 - Determination of purity
 - Confirmation of identify and determination of its purity
 - Debasement of an article
- xx) Flavonoids are biosynthetically derived from
- Shikimic acid pathway
 - Mevolonic acid pathway
 - Acetate pathway
 - None of above

2. Solve any two.

**10x2
=20**

- Define crude drug, classify it and explain Pharmacological and morphological classification of crude drug.
- Define, classify and give the chemical test and properties of Alkaloids.
- What is Traditional system of medicine and elaborate the concepts, principles diagnosis of Homeopathic system of Medicine.

3. Solve any seven.

5x7=
35

- a) Define and explain the reasons for drug adulteration.
- b) Write a short note on Polyploidy.
- c) Define pharmacognosy and write about scope & development of pharmacognosy.
- d) Write a note on Resins.
- e) Define carbohydrates and note on crude drug belongs to it.
- f) Explain different types of plant tissue cultures.
- g) Write a note on edible vaccines.
- h) Classify medicinal agents from Marine sources with examples.
- i) Describe in short factors affecting cultivation of medicinal plants.
