

Duration: 3 hours

Total marks: 75

N.B.: 1. Answer all questions sequentially.

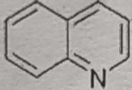
2. Figures to right indicate full marks

Q. 1 Choose the appropriate option for following MCQs

20M

1. Antigen-antibody based method of finding correlation in plants to classify them is the basis for _____ classification.
 - a. Morphological
 - b. Pharmacological
 - c. Chemical
 - d. Sero-taxonomical
2. Acid-insoluble ash means the ash insoluble in
 - a. Hydrochloric acid
 - b. Acetic acid
 - c. Sulphuric acid
 - d. Nitric acid
3. Confusion in vernacular names between indigenous systems of medicine and local dialects is an example of
 - a. Substitution
 - b. Intentional adulteration
 - c. Contamination
 - d. Unintentional adulteration
4. Following statements are true for unorganised drugs; except
 - a. Unorganised drugs have cellular structure.
 - b. Unorganised drugs do not have morphological structure.
 - c. Unorganised drugs are obtained from natural sources.
 - d. Unorganised drugs can be solid, semisolid or liquid.
5. Broadcasting is a
 - a. method of collection of bark
 - b. type of vegetative propagation
 - c. plant tissue culture technique
 - d. method of sowing the seeds
6. Palisade ratio is defined as
 - a. average number of palisade cells beneath each upper epidermal cell.
 - b. average number of palisade cells beneath each lower epidermal cell only.
 - c. total number of palisade cells per square mm area.
 - d. percentage of palisade cells present beneath each epidermal cell.
7. Following are the exogenous factors; except
 - a. Hybridization
 - b. Altitude
 - c. Temperature
 - d. Soil

- 8 Change in DNA sequence is called as
- Grafting
 - Polyploidy
 - Formation of callus
 - Mutation
- 9 The most commonly used carbon source in plant tissue culture nutritional media is _____
- Mercuric chloride
 - Sucrose
 - Ferric chloride
 - EDTA
- 10 _____ are transgenic plants which trigger an immune response to provide immunity against particular infectious diseases.
- Allergens
 - Edible vaccines
 - Polyploids
 - Mutants
- 11 One of the following will give positive response to Phloroglucinol+HCl test
- Jute
 - Cotton
 - Dextrin
 - Gelatin
- 12 Following are the functions of gibberellins except
- promote dormancy
 - promote cell elongation
 - promote parthenocarpic fruit formation
 - promote elongation of internode
- 13 Allergy caused by the metabolic product of living microorganism in the human body, such as the continual presence of certain types of bacteria, protozoas, moulds is called as _____ allergens.
- inhalant
 - infectant
 - ingestant
 - Injectant
- 14 Which of the following constituent in agar is responsible for gel strength
- Agaropectin
 - Agarose
 - Bassorin
 - Amylose

- 15 _____ is the enzyme used for meat tenderization
- Papain
 - Streptokinase
 - Urokinase
 - Serratiopeptidase
- 16 Castor oil is heated at 80 degree centigrade for removal of toxic principle called as _____.
- Abrin
 - Bassorin
 - Ricin
 - Arabin
- 17 Anthraquinones with C-glycoside linkage answer _____ test
- Dragendorffs
 - Shinoda
 - Modified Bontrager's
 - Bontrager's
- 18 Following nucleus is an example of _____ alkaloid.
- 
- c1ccc2c(c1)ncn2
- Pseudo
 - True
 - Proto
 - False
- 19 One of the following statements is true for flavonoids
- They are polyphenolic compounds
 - They are basic in nature
 - They are derived from amino acids
 - They are primary metabolites
- 20 Haemolytic action is shown by
- Saponins
 - Glycosides
 - Volatile oils
 - Steroids

Q. II Answer any Two of the following:

20M

A

- Differentiate between Acacia & Tragacanth w.r.t source, preparation and chemical tests. 5M
- Draw the heterocyclic-nucleus/ general structure, write one example with its use & chemical test for the following class: 5M
 - Hydrolysable tannin
 - Tropane alkaloid

- 2a Write note on Foreign organic matter and extractive values of DONO. Write the significance with suitable examples. 5M
- 2b Define plant tissue culture & give its applications in Pharmacognosy 5M
- 3a Write a note on 5M
- i. Collection of barks
 - ii. Storage of crude drugs
- 3b Give classification of fibres & write a note on Hemp. 5M
- Q. Answer any Seven out of Nine 35M
- II. B
- 1 Give Complete Pharmacognosy of Wool Fat 5M
 - 2 Define Volatile oil. Discuss the different classes of volatile oil with example and its chemical test for identification. 5M
 - 3 Write a note on 5M
 - i. Biodiversity.
 - ii. Auxins - 4 Give salient features and applications of edible vaccine. 5M
 - 5 Discuss pharmacological and chemical classification of drugs of natural origin with suitable examples. 5M
 - 6 Write a note on teratogens and hallucinogens with suitable examples. 5M
 - 7 Write the source, preparation & uses of any two unorganised protein drugs. 5M
 - 8 Write a note on significance of Pharmacognosy in various Indigenous systems of medicine. 5M
 - 9 Draw the heterocyclic nucleus/ general structure, write one example with its use, chemical test for the following phytoconstituents 5M
 - i. Cardiac glycosides
 - ii. Indole alkaloid