

**End Semester/Reappear (Semester IV) Examination**  
**July 2022**

**Programme: B. Pharm**  
**Subject: Pharmacognosy and Phytochemistry I**  
**Subject Code: BP405T**  
**Enrollment No: \_\_\_\_\_**

**Full Marks: 75**  
**Time: 3 Hrs.**

**Section I**

**1. Objective type questions. Answer all questions. 20 x 1 = 20**

- i. Source of opium is
  - a) Plant
  - b) Animal
  - c) Mineral
  - d) Synthetic
- ii. All are under the class of organized drug except
  - a) Leaves
  - b) Gums
  - c) Flowers
  - d) Fruit
- iii. Asafoetida is an example of
  - a) Oleoresin
  - b) Gum-resin
  - c) Oleo-gum-resin
  - d) Glycoresin
- iv. The therapeutic class of cardamom is
  - a) Cardiotonic
  - b) Expectorant
  - c) Emetic
  - d) Carminative
- v. Organoleptic evaluation includes
  - a) Impression on organs of senses
  - b) Histological characters
  - c) Chemical nature
  - d) Pharmacological uses
- vi. Ash value of the crude determines the
  - a) Organic constituents
  - b) Inorganic constituents
  - c) Cell constituents
  - d) Chemical constituents
- vii. Constant number of spores present in 1mg of lycopodium powder
  - a) 940
  - b) 9400
  - c) 94000
  - d) 940000
- viii. All are natural methods of vegetative propagation except one?
  - a) Bulbs
  - b) Tubers
  - c) Suckers
  - d) Cuttings
- ix. Process of removal of extraneous matter, such as other parts of the plant, dirt, and added adulterants is called
  - a) Garbling
  - b) Collection
  - c) Harvesting
  - d) Packing
- x. Indole acetic acid is an example of
  - a) Gibberellin
  - b) Auxin
  - c) Cytokinin
  - d) None

- xi. The gas responsible for fruit ripening is  
 a) Oxygen                      b) Carbon dioxide      c) Ethylene                      d) Nitrogen
- xii. One of these is primarily required for photosynthesis in plants  
 a) Calcium                      b) Cobalt                      c) Manganese                      d) Chlorine
- xiii. The process of use of short high-voltage pulses to overcome the barrier of the cell membrane is called  
 a) Electroporation      b) Transformation      c) Integration                      d) Sero conversion
- xiv. Bhasma is a preparation in which type of medicinal system?  
 a) Unani                      b) Siddha                      c) Homeopathy                      d) Allopathy
- xv. Cotton is..... of the seeds of *Gossypium* belonging to family Malvaceae  
 a) Seed coat                      b) Cotyledon                      c) Trichomes                      d) Embryo
- xvi. Synonym for Agar is  
 a) Mel                      b) Gum dragon                      c) Egyptian thorn                      d) Chinese-isinglass
- xvii. The biological source of Papain is  
 a) *Carica papaya*      b) *Ananas comosus*      c) *Serratia E15*                      d) *Apis dorsata*
- xviii. Proteins give ..... colour with ninhydrin  
 a) Violet to blue      b) Blue to violet                      c) Red to blue                      d) Orange to blue
- xix. \_\_\_\_\_ is used in ointment for hardening purpose  
 a) Liquid paraffin      b) Petroleum jelly                      c) Beeswax                      d) Wool fat
- xx. Hydnocarpic acid is the chief chemical constituent of  
 a) Beeswax                      b) Castor oil                      c) Wool fat                      d) Chaulmoogra oil

### Section II

2. **Short Answer type questions. Answer any five** **5 x 7 = 35**
- Explain Quantitative microscopic method in evaluation of crude drugs.
  - Write the determination and significance of Ash value.
  - What are plant hormones? Write a note on Auxins.
  - Give the advantages of plant tissue culture over conventional cultivation technique.
  - Give the classification and properties of Resins.
  - Give the biological source, chemical nature and uses of Cotton and Jute.
  - Classify medicinal agents from Marine sources with examples.

### Section III

- Long Answer type questions. Answer any two.** **2 x 10 = 20**
- Define Pharmacognosy. Explain the history and scope of Pharmacognosy.
  - Define, classify and give general chemical tests for Alkaloids.
  - What is Tannin? Briefly explain different types of tannin and write its chemical identification test.

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