

PARUL UNIVERSITY
FACULTY OF PHARMACY
B. Pharm. Summer 2022 - 23 Examination

Semester : 4**Subject Code: BP405T****Subject Name: Pharmacognosy and Phytochemistry-I****Date: 21/04/2023****Time: 10:00am to 1:00pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Multiple Choice Questions (MCQs) (1 Mark Each)**(20)**

1. The oleo gum resin containing drug is
 - a) Turmeric
 - b) Asafoetida
 - c) Ginger
 - d) Jalap
2. Paracytic stomata is known as
 - a) Rubiaceae
 - b) Ranunculaceae
 - c) Caryophyllaceae
 - d) Anisocytic
3. Who is known as the "Father of Medicine"?
 - a) Galen
 - b) Charak
 - c) Hippocrates
 - d) Sushruta
4. The residue remaining after incineration of crude drug is known as
 - a) Moisture content
 - b) Swelling Index
 - c) Ash Value
 - d) None of these
5. A botanical classification of crude drugs based on principles of natural relationship and evolutionary developments is known as
 - a) Chemical
 - b) Alphabetical
 - c) Taxonomical
 - d) Pharmacological
6. Which of following is endogenous factor affecting the cultivation of medicinal plant?
 - a) Fertilizer
 - b) Altitude
 - c) Temperature
 - d) Polyploidy
7. Which of following factor to be considered at the time of collection of crude drug?
 - a) Time of collection
 - b) Season
 - c) Age of Plant
 - d) All of above
8. In water stress condition which plant hormone responsible for closing of stomata
 - a) Gibberellin
 - b) Cytokinin
 - c) Abscisic acid
 - d) Auxin
9. Which is the physical method of Pest management?
 - a) Handpicking
 - b) Pruning
 - c) Burring
 - d) All of above
10. _____ type of soil is physiologically dry soil.
 - a) Silt soil
 - b) Clay soil
 - c) Sandy soil
 - d) Loam soil
11. Degree of unsaturation in fatty acid is measure by
 - a) Iodine value
 - b) Ester value
 - c) Hydroxyl value
 - d) Saponification value
12. Which of following responsible for viscosity of agar solution?
 - a) Agarpectin
 - b) Agarose
 - c) Tragacanthin
 - d) Bassorin
13. Artificial invert sugar is an adulterant for honey and it is detected by
 - a) Fiehe's test
 - b) Ninhydrine test
 - c) Baljet test
 - d) Killer killani test
14. Pieces of tissue or small organs that are used in culturing is
 - a) Explant
 - b) Micro plant
 - c) Macro plant
 - d) Clones

15. Protoplast is made up of _____.
- a) Cell wall + Plasma membrane
b) Plant cell – cell wall
c) Cytoplasm + cell wall
d) Plasma membrane – cytoplasm
16. Panch Mahabhut Siddhant and Tridosha theory is related to
- a) Ayurveda
b) Siddha
c) Homeopathy
d) Unani
17. Homeopathic system of medicine was developed by _____.
- a) Hippocrates
b) Galen
c) Samuel Hanneman
d) C. A. Sydler
18. Which of the following is NOT the class of secondary metabolite?
- a) Amino acids
b) Glycosides
c) Tannins
d) Alkaloids
19. What are glycosides made up of?
- a) Glycone + Aglycone
b) Non-sugar + Aglycone
c) Sugar + Glycone
d) Glycone + Cyclone
20. Alkaloids are mostly found in nature as _____.
- a) Water soluble salts
b) Free bases
c) Insoluble salts of organic acids
d) Alcohol soluble salts of organic acid

Q.2 Long Answers (any 2 out of 3) (10 Mark Each)

(20)

- a) Applications of Plant tissue culture.
b) Write about the source, chemical nature and uses of Beeswax and Chaulmoogra oil .
- Enlist factors affecting the cultivation of medicinal plants. Discuss Mutation and Hybridization in detail.
- a) Write a note on Ayurvedic system of Medicine.
b) Define Adulteration. Discuss Physical evaluation of crude drugs in detail.

Q.3 Short Answers (any 7 out of 9) (5 Mark Each)

(35)

- Define Pharmacognosy and Elaborate about the scope of Pharmacognosy.
- Differentiate Organized and Unorganized crude drugs.
- Describe in brief about Plant growth regulators.
- Explain the importance of soil and soil fertility in cultivation of crude drugs.
- Define and Classify Alkaloids.
- Define tannins. Differentiate hydrolysable and condensed tannins.
- Describe the source, preparation, chemistry and uses of acacia and tragacanth.
- Define Plant tissue culture. Explain the basic requirements for PTC.
- Write a note on Natural Allergens.