

PARUL UNIVERSITY
FACULTY OF PHARMACY
B. Pharm. Summer 2018- 19 Examination

Semester: 4**Subject Code: BP405T****Subject Name: Pharmacognosy and Phytochemistry- I****Date: 10/04/2019****Time: 02:00pm to 05:00pm****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. Who coined the word "Pharmacognosy"?
 - a) Hardy and Gerrad
 - b) Stass and Otto
 - c) Benthum
 - d) C.A. Seydler
2. Volatile oil extracted from rose petal through
 - a) Steam distillation
 - b) Fractional distillation
 - c) Enflurage
 - d) None of these
3. Which of the following drug is not considered as a Oleogumresin
 - a) Myrrh
 - b) Ginger
 - c) Shellac
 - d) Asafoetida
4. Which of the following is the example of Unorganized drug
 - a) Opium
 - b) Jalap
 - c) Cinchona
 - d) Fennel
5. Which Phyto regulators are having a good effect on ripening fruits
 - a) Cytokinin
 - b) Ethylene
 - c) Abscisic acid
 - d) Auxin
6. The size of Lycopodium spores are
 - a) 10 μm
 - b) 15 μm
 - c) 25 μm
 - d) 20 μm
7. Total Ash usually does not contain
 - a) Carbonates
 - b) Organic matter
 - c) Oxides
 - d) Silicates
8. Haemolytic activity is carried out for
 - a) Cardiac glycoside
 - b) Saponin glycoside
 - c) Cyanogenetic glycoside
 - d) Flavanoids
9. The process by which meristem cells are converted into more cells are known as
 - a) Differentiation
 - b) De-differentiation
 - c) Re-differentiation
 - d) Plasticity
10. Choose the correct answer

1. Anisocytic stomata	a. Guard cells are covered with more subsidiary cells
2. Paracytic stomata	b. Guard cells are covered with three subsidiary cells, one is small as compared to other cells.
3. Dicytic stomata	c. Guard cells are covered with two subsidiary cells, at parallel to that of stoma
4. Anomocytic stomata	d. Guard cells are covered with two subsidiary cells, at the right angle to that of stoma.

- a) 1-b, 2-a, 3-c, 4-d
 - b) 1-b, 2-c, 3-d, 4-a
 - c) 1-a, 2-c, 3-d, 4-b
 - d) 1-c, 2-d, 3-a, 4-b
11. "Like with Like" is the principle of
 - a) Homeopathy
 - b) Ayurvedic
 - c) Unani
 - d) Siddha
 12. Colchicine is induced
 - a) Mutation
 - b) Polyploidy
 - c) Chemical race
 - d) Hybridization
 13. Under stressed condition, Abscisic Acid acts as

- a) Opening of stomata
c) Both
- b) Closing of stomata
d) None
14. High concentration of Auxin promotes
a) Root
c) Shoot
- b) Callus
d) Both Shoot and Root
15. Which of the following is Proteolytic enzyme
a) Papain
c) Pepsin
- b) Bromelain
d) All
16. Select correct answer:
- | | |
|--------------------|-------------------|
| 1. Tragacanth | a. Apidae |
| 2. Chaulmoogra oil | b. Caricaceae |
| 3. Honey | c. Flacourtiaceae |
| 4. Papain | d. Leguminosae |
- a) 1-d, 2-c, 3-a, 4-b
c) 1-a, 2-b, 3-c, 4-d
- b) 1-b, 2-a, 3-d, 4-c
d) 1-c, 2-d, 3-a, 4-d
17. Indole alkaloid is derived from
a) Tryptophan
c) Ornithine
- b) Tyrosine
d) Histidine
18. An essential ingredient in the general preparation of Plant Tissue Culture is
a) Gibberellins
c) Auxin
- b) Sucrose/Glucose
d) Pyridoxine HCl
19. Which is not an advantages of Vegetative method for Propagation.
a) There is no variation between plants grown and parent plant
c) The plants are less resistant against the disease as compared to seedling plants
- b) It is possible to avail modifying influence of root stocks on scion
d) Plants bear early as compared to seedling plants
20. Which is present in Schizolysigenous cavity
a) Oleogumresin
b) Tannins
- (c) Alkaloid
d) Saponin

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

(20)

1. Explain in detail about the Classification of Crude Drugs.
2. Write a note on Factors affecting the Cultivation of Medicinal Plants.
3. Explain the Protoplast Culture with schematic diagram. And write a note on maintenance of Suspension Culture.

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

(35)

1. Classify Carbohydrates and Explain in detail about Acacia and Honey.
2. Give the Properties and Identification Tests of the following:
 - a. Alkaloids
 - b. Glycosides
 - c. Flavanoids
 - d. Tannins
 - e. Volatile oil and Resins.
3. Discuss about Quantitative Microscopy.
4. Write a short note on Plant Growth Hormones.
5. Differentiate Organized drugs and Unorganized drugs. Explain the terms: Dried Extracts and Oleogum-resin.
6. Discuss about Chaulmoogra oil and Casein.
7. Describe briefly the Role of Pharmacognosy in Modern and Traditional System of Medicines.
8. Enlist different Evaluation Parameters for Quality Control of Herbal Drugs. Explain the term Adulteration.
9. Write a note on Nutritional Requirement of Plant Tissue Culture Medium.