

**B. PHARM.  
FOURTH SEMESTER  
PHARMACOGNOSY & PHYTOCHEMISTRY-I  
BP405T[SPECIAL REPEAT]  
[USE OMR SHEET FOR OBJECTIVE PART]**

**SET  
A**

Duration: 3 hrs.

Full Marks: 75

Time: 30 min.

**(PART-A: OBJECTIVE)**

Marks: 20

1×20=20

Choose the correct answer from the following:

- Who's the father of Indian Pharmacognosy?
  - Dr. Chandrakant Kotate
  - Aristotle
  - Hippocrates
  - Shen Nung
- Bark containing plant drug is .....
  - Cinchona
  - Aloe
  - Agar
  - Colophony
- It is the average number of palisade cells below on epidermal cells is known as....
  - Stomatal number
  - Palisade ratio
  - Vein islet number
  - Stomatal index
- Parathion is a..
  - Insecticide
  - Rodenticide
  - Herbicide
  - Fungicide
- Naturally occurring Auxin is..
  - IBA
  - Indole 3-acetic acid
  - NAA
  - None of the above
- Crosses are made between two different species of the same genus is known as..
  - Intraspecific hybridization
  - Intravarietal hybridization
  - Interspecific hybridization
  - None of the above
- Totipotency refers to .....
  - Development of fruits from flowers in a culture
  - Development of an organ from a cell in a culture Medium
  - Flowering in a culture medium
  - All of the above
- Plant tissue culture is technique of?
  - In vivo growing cells
  - In vitro maintaining and growing cells
  - Growing plants in a greenhouse
  - All of the above
- What are explants?
  - It's a part of plant or plant grown in a test tube
  - It's a part of plant under soil
  - Both a and b
  - None of the above

10. Tissue culture technique was first practiced by
  - a. White
  - b. Halperin
  - c. Haberlandt
  - d. Skoog
11. Which is the specific chemical test to confirm flavanoids..
  - a. Vitali morin test
  - b. Shinoda test
  - c. Borntrager test
  - d. Mayers test
12. The three types of alkaloids are:
  - a. True alkaloids, false alkaloids and neutral alkaloids
  - b. Proto alkaloids, pseudo alkaloids and false alkaloids
  - c. Proto alkaloids, non-proto alkaloids and pseudo alkaloids
  - d. True alkaloids, proto alkaloids and pseudo alkaloids
13. The example of pseudo alkaloid:
  - a. Caffeine
  - b. Atropine
  - c. Quinine
  - d. Morphine
14. Senna respond to..
  - a. Goldbeater,s skin test
  - b. Vitali morin test
  - c. Borntrager test
  - d. None of the above
15. Siddha system of medicine is originated from.
  - a. Punjab
  - b. West Bengal
  - c. Delhi
  - d. Tamil nadu
16. Like cures like is the principle of .
  - a. Ayurveda
  - b. Homeopathy
  - c. Unani
  - d. Siddha
17. Panchamahabhuta and tridosha theory is related to..
  - a. Ayurveda
  - b. Homeopathy
  - c. Unani
  - d. None of the above
18. Cotton consist of hairs of the seeds of ..
  - a. Syzigium cumini
  - b. Ficus racemosa
  - c. Gossypium hirsutum
  - d. Cassia angustifolia
19. Hemp and Jute are..
  - a. Animal fibres
  - b. Plant fibres
  - c. Mineral fibres
  - d. Synthetic fibres
20. Serratiopeptidase is obtained from.
  - a. Bones
  - b. Tissue
  - c. Silkworm
  - d. Stomach of pig

**PART-B :Descriptive**

Time : 2 hrs. 30 min.

Marks : 35

*[ Answer any seven (7) questions ]*

1. Explain in detail the lycopodium spore techniques. 5
2. Explain the types of adulteration of crude drugs. 5
3. Differentiate between organized and unorganized crude drugs. 5
4. Write a note on edible vaccines. 5
5. Write down the classification of alkaloids with examples. 5
6. Write down the application of Plant tissue culture. 5
7. Write down classification of natural allergens along with examples. 5
8. Write down the sources, preparation and uses of Papain. 5
9. Write a short note on Wool fat and Chaulmoogra oil. 5

**( PART-C: Long type questions )**

**[ Answer any two (2) questions ]**

1. Discuss the factors affecting the cultivation of medicinal plants with suitable examples. 5+5=10
2. Explain in details about the nutritional requirements of Plant tissue culture(PTC) 10
3. What are marine drugs? Write down the novel medicinal agents obtained from the marine sources. 10

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