

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

**SET  
A**

Duration: 3 hrs.

Full Marks: 75

**( PART-A: Objective )**

Time: 30 min.

Marks: 20

**Choose the correct answer from the following:**

**1×20=20**

- Which optical instrument, when attach with a component microscope helped drawing microscope images of objects on the paper ?
  - Microscope
  - Lycopodium Spore method
  - Camera Lucida
  - None
- Which drug is not an example of unorganized crude drug.
  - Cinchona
  - Aloe
  - Agar
  - Colophony
- The term pharmacognosy explained in the book..
  - Materia medica
  - Pentsao
  - Analecta pharmacognistica
  - Medicine
- The study of antigen-antibody reaction is called as.....
  - Pharmacognosy
  - Toxicology
  - Serology
  - Morphology
- It is the average number of palisade cells below epidermal cells.....
  - Stomatal number
  - Palisade ratio
  - Vein islet number
  - Stomatal index
- Organoleptic evaluation is also known as.....
  - Microscopical
  - Morphological
  - Biological
  - Chemical
- 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

9. What are explants?  
 a. It's a part of plant or plant grown in a test tube  
 b. It's a part of plant under soil  
 c. Both a and b  
 d. 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. In-plant tissue culture, the callus tissues are generated into a complete plantlet by altering the concentration \_\_\_\_\_.  
 a. Sugars  
 b. Hormones  
 c. Amino Acids  
 d. Vitamins and minerals
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. Commonly used solidifying medium for tissue culture medium..  
 a. Gelatin  
 b. Starch  
 c. Agar  
 d. Pectin
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. Write down the general steps involved in plant tissue culture(PTC) 5
2. Explain the types of adulteration of crude drugs. 5
3. Explain in detail the lycopodium spore techniques. 5
4. Write a note on edible vaccines. 5
5. Discuss the types and application of mutation 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 down the sources, preparation and uses of honey. 5

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**PART-C: Long type questions**  
*[ Answer any two (2) questions ]*

1. Discuss the factors affecting the cultivation of medicinal plants with suitable examples. 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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