



10. Serratiopeptidase is obtained from.
- |             |                   |
|-------------|-------------------|
| a. Bones    | b. Tissue         |
| c. Silkworm | d. Stomach of pig |
11. Drug is not under the class of organized drug :
- |           |            |
|-----------|------------|
| a. Leaves | b. flowers |
| c. Fruits | d. Gums    |
12. Drug is not an example of unorganized crude drug
- |             |              |
|-------------|--------------|
| a. Cinchona | b. Aloe      |
| c. Agar     | d. Colophony |
13. The term pharmacognosy explained in the book..
- |                              |             |
|------------------------------|-------------|
| a. Materia medica            | b. Pentsao  |
| c. Analecta pharmacognistica | d. Medicine |
14. Parathion is a..
- |                |                |
|----------------|----------------|
| a. Insecticide | b. Rodenticide |
| c. Herbicide   | d. Fungicide   |
15. Naturally occurring Auxin is..
- |        |                         |
|--------|-------------------------|
| a. IBA | b. Indole 3-acetic acid |
| c. NAA | d. None of the above    |
16. Crosses are made between two different species of the same genus is known as..
- |                                |                                |
|--------------------------------|--------------------------------|
| a. Intraspecific hybridization | b. Intravarietal hybridization |
| c. Interspecific hybridization | d. None of the above           |
17. Totipotency refers to \_\_\_\_\_
- |  |  |
|--|--|
| a. Development of fruits from flowers in a culture | b. Development of an organ from a cell in a culture Medium |
| c. Flowering in a culture medium                   | d. All of the above  |
18. Plant tissue culture is technique of?
- |                                   |   |
|-----------------------------------|---|
| a. In vivo growing cells          | b. In vitro maintaining and growing cells |
| c. Growing plants in a greenhouse | d. All of the above                       |
19. 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               |
20. Tissue culture technique was first practiced by
- |               |             |
|---------------|-------------|
| a. White      | b. Halperin |
| c. Haberlandt | d. Skoog    |

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**( 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. 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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