

**Shree H.N.Shukla institute of  
Pharmaceutical Education & Research  
Rajkot**

**B.Pharm  
Semestern III**

**Question Bank**

**Subject Name: Pharmacognosy and Phytochemistry I  
Subject code:BP305TP**

## Chapter 1.

- 1 Define Pharmacognosy. Discuss its scope in detail elaborating its relation to allied fields.
- 2 Define Pharmacognosy. Describe in brief History and Scope of Pharmacognosy.
- 3 Enlist sources of crude drugs. Describe in brief marine and animal as sources of crude drugs with examples.
- 4 Define Crude drugs. Describe in brief sources of drugs. OR Give the sources of crude drugs with suitable examples.
- 5 Describe in brief Marine source of drugs.
- 6 Define crude drugs. Enumerate the sources of crude drugs and explain any one giving examples.
- 7 Define the term tissue culture and write its importance in pharmacognosy. OR Tissue culture as a source of crude drugs. OR Write in brief tissue culture as a source of plant drugs. OR How tissue culture is being utilized as a source of herbal drugs and natural products? OR Define crude drugs. Discuss tissue culture as a source of crude drugs.
- 8 What is a crude drug? What are the methods of classification of crude drugs? Describe therapeutic classification of crude drugs
- 9 Enumerate the different methods of classification of crude drugs. Discuss Chemical and Pharmacological classification with their merits and demerits, justify your answer with suitable examples.
- 10 Define Crude drugs, classify them, and explain chemical classification with suitable example.
- 11 Chemical classification of crude drugs.
- 12 Do you think that classification of crude drugs is necessary? If yes, justify your answer. Add a short note on pharmacological classification.
- 13 Enumerate different methods of classification of crude drugs. Discuss in detail pharmacological classification of crude drugs. **OR** Enumerate methods of classification of crude drugs. Explain therapeutic classification citing examples, merits and demerits.
- 14 Explain terms organized and Unorganized crude drugs stating examples.
- 15 What is adulteration of crude drugs? How do you detect adulteration by organoleptic and microscopic characters?
- 16 Define adulteration of crude drugs. Discuss different types of adulterants and its microscopic evaluations.
- 17 Define Adulteration of crude drugs. Discuss different types of adulteration with suitable examples. OR Write a note on Types of adulterants. **OR** What is the meaning of sophistication? With suitable examples, explain types of adulterants. **OR** Define adulteration of crude drugs. Write short report on deliberate adulteration.
- 18 Define evaluation of crude drugs. Discuss Organoleptic and microscopic evaluation.
- 19 Discuss in detail microscopic evaluation.
- 20 Describe in brief quantitative microscopy.
- 21 What is quantitative microscopy? Discuss in detail lycopodium spore method.
- 22 Enlist names and ideal requirements of mounting agents used for microscopy.
- 23 Explain WHO guidelines to evaluate crude drug with emphasis on microbial evaluation?
- 24 What is adulteration of crude drugs? Explain any four methods of evaluation of crude drugs.
- 25 Answer of the following terms.
  - a) What is substitution?
  - b) Define palisade ratio.
  - c) Explain chemo-microscopy
- 26 What physical constants and chemical parameters are usually determined for quality control of crude

drugs?

- 27 Describe different leaf constants. Give role of camera lucida in measurement of different leaf constants.

## **Chapter 2: Cultivation, Collection, Processing and Storage of Drugs of Natural Origin:**

1. What is cultivation? Write advantage and disadvantage of cultivation and write a different method of cultivation.
2. Enumerate the various factors of cultivation and collection and give brief of that.
3. Write a note on Pest and pest control. (add method)
4. What are Plant Growth Hormones? Give in detail.
5. Write a note on plant growth inhibitor.
6. Write a note on Polyploidy, mutation and hybridization.
7. Explain the conservation of plants by Poly houses/ Green houses cultivation.
8. Discuss the sexual and asexual methods of vegetative propagation in brief.
9. Give a brief report on factors affecting cultivation of medicinal plants.

## **Chapter 3 Plant Tissue Culture**

- 1 Define plant tissue culture
- 2 Give Advantages and Disadvantages of Plant tissue culture.
- 3 Enumerate the basic nutritional requirements of plant tissue culture
- 4 Enlist different types of plant tissue culture.
- 5 Discuss in brief about static or callus culture
- 6 Discuss in brief about Suspension culture
- 7 Discuss in brief about Hairy root culture
- 8 Discuss in brief about Protoplast culture
- 9 Discuss in brief about Somatic hybridization
- 10 Write a note on Micropropagation and synthetic seed.
- 11 What is a plant cell immobilization? Describe methods & applications of plant cell immobilization
- 12 Write a note on Elicitors, Biotransformation and Cryopreservation
- 13 Discuss in brief about the applications of plant tissue culture.
- 14 Write a note on Edible vaccine