

Pharmacognosy Question Bank (Chapters 5, 6, 7)

Chapter 5: Phytochemical Investigation of Drugs

Short Answer Questions (2-3 Marks Each)

1. Define phytochemical investigation and list two techniques used for identifying phytochemicals in crude drugs.
2. What is the role of chromatography in the phytochemical analysis of crude drugs?
3. Name two phytochemicals commonly found in crude drugs and mention their therapeutic significance.
4. Explain the importance of standardization in the phytochemical investigation of herbal medicines.
5. What is the difference between qualitative and quantitative phytochemical analysis?

Long Answer Questions (5-7 Marks Each)

6. Discuss the various techniques used in phytochemical investigation, including extraction and identification methods.
7. Explain the role of spectroscopy in the phytochemical analysis of crude drugs, with examples.
8. Describe the steps involved in the phytochemical screening of a crude drug for alkaloids and glycosides.
9. Discuss the challenges in phytochemical investigation and how they can be addressed.
10. Write a note on the significance of phytochemical investigation in ensuring the quality of herbal drugs.

Practical-Based Questions (3-5 Marks Each)

11. Describe the procedure for performing a thin-layer chromatography (TLC) test to identify flavonoids in a crude drug sample.
12. Explain the chemical test to detect saponins in a given crude drug sample.
13. Write the steps to prepare a crude drug sample for phytochemical screening.
14. Demonstrate the identification of tannins in a crude drug using the ferric chloride test.
15. Describe the procedure to evaluate the presence of volatile oils in a crude drug sample.

Chapter 6: Herbs as Health Food

Short Answer Questions (2-3 Marks Each)

16. Define nutraceuticals and provide two examples of herbs used as health foods.
17. What are the health benefits of using Ginger as a health food?
18. List four herbs commonly used as health foods and mention one use for each.
19. Explain the term "functional foods" in the context of herbal products.
20. What is the role of herbs in preventive healthcare?

Long Answer Questions (5-7 Marks Each)

21. Discuss the significance of herbs as health foods in promoting wellness and preventing diseases.
22. Explain the nutritional and therapeutic benefits of herbs like Cinnamon and Cardamom when used as health foods.
23. Describe the regulatory considerations for marketing herbs as health foods in India.
24. Discuss the role of herbs in nutraceuticals and their impact on the health food industry.
25. Write a detailed note on the preparation and standardization of herbal health food products.

Practical-Based Questions (3-5 Marks Each)

26. Describe the morphological characteristics of Nutmeg and Black Pepper used as health foods.
27. Explain the procedure for preparing a transverse section of Fennel for microscopical study.
28. Demonstrate the identification of Coriander seeds based on their morphological features.
29. Write a report on a field visit to a pharmacy to study the availability of herbal health food products.
30. Perform a physical evaluation of Ginger to assess its suitability as a health food ingredient.

Chapter 7: Herbal Cosmetics

Short Answer Questions (2-3 Marks Each)

31. Define herbal cosmetics and give two examples of herbs used in cosmetic formulations.
32. What is the role of Aloe Vera in herbal cosmetics?
33. List three advantages of using herbal cosmetics over synthetic ones.
34. Explain the term "cosmeceuticals" in the context of herbal products.
35. Name two crude drugs used in herbal shampoos and their benefits.

Long Answer Questions (5-7 Marks Each)

36. Discuss the role of herbal cosmetics in the beauty and personal care industry, with examples.
37. Explain the formulation process of herbal cosmetics, including quality control measures.

38. Describe the therapeutic and aesthetic benefits of herbs like Turmeric and Sandalwood in cosmetics.
39. Discuss the challenges in developing and marketing herbal cosmetics in India.
40. Write a note on the standardization and regulatory requirements for herbal cosmetics.

Practical-Based Questions (3-5 Marks Each)

41. Describe the procedure to evaluate the quality of a crude drug like Clove for use in herbal cosmetics.
42. Explain how to prepare a transverse section of Cinnamon for microscopical analysis.
43. Demonstrate the identification of Cardamom based on its morphological characteristics.
44. Write a report on a field visit to a pharmacy to understand the availability and labeling of herbal cosmetics.
45. Perform a chemical test to detect essential oils in a crude drug used in herbal cosmetic formulations.

Assignment-Based Questions (5 Marks Each)

46. Prepare an assignment on the various techniques used in phytochemical investigation of crude drugs.
47. Write an assignment discussing the role of herbs as health foods in preventive healthcare.
48. Submit an assignment on the formulation and standardization of herbal cosmetics.
49. Prepare an assignment on the significance of quality control in the production of herbal health foods and cosmetics.
50. Write an assignment on the regulatory guidelines for marketing herbal cosmetics and nutraceuticals in India.