

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA
[INSTITUTE OF NATIONAL IMPORTANCE]

MINISTRY OF AYUSH, GOVERNMENT OF INDIA

B. PHARM. (AYU.) III YEAR

PHARMACOGNOSY OF AYURVEDIC DRUGS II

Question Bank

Section – A

Chapter 1:- Significance of Pharmacopoeia

[10 Marks]

Define pharmacopoeia and describe Indian pharmacopoeia in detail.

Define pharmacopoeia and describe British pharmacopoeia in detail.

Define pharmacopoeia and describe European pharmacopoeia in detail.

Define pharmacopoeia and describe United States pharmacopoeia in detail.

[05 Marks]

Discuss I.P. and B.P. in brief.

Write a short note on I.P.

Write a short note on B.P.

Write a short note on U.S.P.

Define pharmacopoeia and its importance and how it is useful in pharmacy?

[02 Marks]

Pharmacopoeia

Full form of API

Full form of U.S.P. , I.P. & B.P.

Chapter 2:- Drugs of Marine sources

[10 Marks]

Explain in detail marine as a source of drugs with suitable examples.

Write a note on marine as a source of drugs and give an account on shankha and praval.

Write a note on marine as a source of drugs and give an account on Mukta and Sukti.

[05 Marks]

Discuss in detail on any two marine drugs used as anticancer

Discuss in detail on any two marine drugs used as Antiviral agents

Discuss in detail on any two marine drugs used as antimicrobial agents

Discuss in detail on any two marine drugs used as antiparasitic agents

Discuss in detail on any two marine drugs used as antispasmodic & cardiovascular

What are marine toxins? Write a note on that.

Write a note on Marine as a source of drugs.

[02 Marks]

Ayurvedic formulations of Shankha.

Ayurvedic formulations of Mukta.

Ayurvedic formulations of Sukti.

Ayurvedic formulations of Praval.

Uses of Shankha in Ayurved.

Uses of Mukta in Ayurved.

Uses of Sukti in Ayurved.

Uses of Praval in Ayurved.

Chapter 3:- Glycoside

[10 Marks]

What is glycoside? Discuss in detail. Write a note on drug containing cardiac glycoside

What is glycoside? Discuss in detail. Write a note on drug containing saponin glycoside

What is glycoside? Discuss in detail. Write a note on drug containing anthraquinone glycoside

What is glycoside? Discuss in detail. Write a note on drug containing cynogenetic glycoside

What is glycoside? Discuss in detail. Write a note on drug containing isothiocyanate glycoside

What is glycoside? Discuss in detail. Write a note on drug containing bitter glycoside

What is glycoside? Discuss in detail. Write a note on drug containing coumarin glycoside

What is glycoside? Discuss in detail. Write a note on drug containing flavonoid glycoside

[05 Marks]

Discuss different types of sugar & its role in glycoside

Classify the glycoside as per their linkage

What is anthracene glycoside ? Discuss in detail.

Mention different test for presence of anthraquinone glycosides. Mention one in detail.

Discuss borntrager's test in detail

Differentiate Alexandrian & Indian senna

Give a note on curcao aloe

Give a note on cape aloe

Give a note on socotrine & zanzibar aloe

General test to detect aloe

Write the process of keller killiani test

History of digitalis

Discuss why scilla is always stored in well filled closed containers

Discuss the types of saponin

What is froth number?

Differentiate Brahmi and Mandukparni

Differentiate Laghu and Bruhad Gokshura

Discuss the process of Apamarga Kshar

Give process of hydrolysis of amygdellin

What is guignard reaction?

Explain enzymatic hydrolysis is recommended in case of cynogenetic glycoside

Explain coumarin glycosides are used in leukoderma

Discuss the various appearance of outer & inner surface of bark

Discuss the different type fractures of bark

What is rhytidoma?

Define bark in detail & discuss the role of its tissues

Discuss the various shapes of bark

Name two classical formulations products of Mandukparni & mention the medicinal usage of that product.

Name two classical formulations products of Brahmi & mention the medicinal usage of that product.

Name two classical formulations products of Katuki & mention the medicinal usage of that product.

Name two classical formulations products of Bakuchi & mention the medicinal usage of that product.

Name two classical formulations products of Yastimadhu & mention the medicinal usage of that product.

Name two classical formulations products of Senna & mention the medicinal usage of that product.

Name two classical formulations products of Digitalis & mention the medicinal usage of that product.

Name two classical formulations products of Aragvadh & mention the medicinal usage of that product.

Name two classical formulations products of Shatavari & mention the medicinal usage of that product.

[02 Marks]

What is 'emil fischer' method?

What is glycoside?

What is rhamnoside?

What is galactoside?

What is o- glycoside?

What is c- glycoside?

What is S-glycoside?

What is N-glycoside?

Importance of anthracene glycoside

Importance of saponin glycoside

Importance of cardiac glycoside

Importance of cynogenetic glycoside

Importance of isothiocynate glycoside

Importance of bitter glycoside

What is cardenolides?

What is buffadenolides?

Name an enzyme present in digitalis

What are the allied drugs of digitalis?

What are the tests of Scilla?

What is sapotoxin?

Define bitterglycoside

Define cynogenetic

Define flavonoid

Define isothiocynate

Give structural formula of isothiocynate

Define coumarin

What is glycon and aglycone?

Give structural formula of α glycoside

Give structural formula of β glycoside

Give structural formula of Anthrone

Give structural formula of Anthranol

Give structural formula of aloe-emodin

Give structural formula of emodin

Give structural formula of rhein

Give structural formula of rhein anthrone
Give structural formula of crysopherol
Give structural formula of Di anthrone
Give structural formula of Di anthranol
Give structural formula of tetracyclic triterpinoid
Give structural formula of pentacyclic triterpinoid
Give structural formula of α - Amylin
Give structural formula of β - amylin
Give structural formula of lupeol
Give structural formula of amygdalin
Give structural formula of mandelonitrile
Give structural formula of benzaldehyde
Give structural formula of allyl isothiocyanate

Chapter 4:- Definition of Adulteration, Substitution and their identity as per the methods described for authentic drug.

[10 Marks]

1. Evolution of crude drugs.
2. Explain what you understand by evaluation of crude drugs. Described giving illustration importance of physical and chemical evaluation of crude drugs.
3. What you understand by unorganized drugs? How they are evaluated? Mention the chemical test of unorganized drugs which you have studied this year.
4. What are adulterants and substitutes? With suitable examples describe how crude drugs are adulterated. Discuss the method of their detection.

[05 Marks]

1. Chemical evaluation of crude drugs.
2. Name the adulterants of fennel and the methods of detection of this adulterants.
3. Write a note on chemical evaluation of crude drugs.
4. Name the anticancer drugs, their parts used and chemical constituents.
5. Define wood.
6. Define bark.
7. Define seed.
8. Anatomical structure of monocot stem.

SECTION :- B

Chapter 5:- Alkaloids

[10 Marks]

Name the botanical source of various drugs marketed under the common name as Bala. Give their therapeutic properties and chemical constituents.

Describe the general morphology and microscopy of Datura & Vasaka leaves. Draw neat & clean diagrammatic sketch of both the leaves and label. Mention the chemical tests you have applied to identify them.

Define seed. Name seed drugs containing alkaloids. Mention their therapeutic properties.

Discuss the drugs containing tropane alkaloids.

Name the Solanaceous leaf drugs containing alkaloids. Mention their chemical constituents and uses.

Enlist the seed drugs containing alkaloids. Give their botanical source family chemical constituents therapeutic uses are adulterants if any.

Classify the various alkaloids drugs. Give their structural formula where ever possible. Mention the botanical source family and therapeutic uses of atleast one drug belonging to these categories.

Define bark. Name bark drug containing alkaloids. Describe the histological character of one bark drug which you have studied.

Give arrangement of tissues seen in transverse section an underground organ containing alkaloids.

Define seed. Name the alkaloids containing seed drugs which you have studied this year.

Describe the histological characters of one seed drug.

Give an account of botanical source, family, chemical constituents and arrangement of tissues as seen in transverse section of an underground organ containing alkaloids.

Define alkaloids. Name the Solanaceous leaf drugs containing alkaloids. Mention their differentiating morphological and microscopical characters.

Define alkaloids. Name the seed drugs of the Solanaceous family containing alkaloids and their chemical constituents.

[05 Marks]

Give the botanical source, family and chemical constituent of Langli. Explain why its alkaloids are classified as Pseudoalkaloids.

Soma is the controversial Ayurvedic Drug. Explain why it is so? Name various alkaloids of Kupilu and their histochemical tests.

Stomata of vasaka and datura.

Extraction method of alkaloids.

Formation and distribution of alkaloids in plants.

Role of alkaloids in plants.

Occurrence and distribution of alkaloids in plant.

Define alkaloids. Enlist the fruit drug containing alkaloids.

Give the microscopical character of a stem drug containing alkaloids which you have studied this year.

Mention the various tests for the detection of alkaloids.

Indole alkaloids.

What are the steroidal alkaloids? Name the drugs containing these alkaloids. Give their botanical sources and families.

Histological tests can locate the presence of certain alkaloids. Justify this sentence by giving suitable examples.

Powder Characters of Dhanyak and Mishreya.

Stomata of Vasaka and Datura.

Trichoms of Ashwagandha and kupilu.

Powder of clove bud and stem.

Ativisha and Vatsanabha.

Occurrence and distribution of alkaloids in pants.

What do you understand by adulterants and substitutes? Name the adulterants of Bala.

Give the botanical source, family and therapeutic use of Ashwagandha.

Role of Kupilu in Ayurveda.

Substitutes and adulterants of Kupilu.

Give structural formulae of Ephedrine.

Give atleast three names of plant used as soma possessing helunciogic effects Indole alkaloids.

Contraindication of patha.

Give structual formula of seryentine.

Give atleast three market brands of Kutaj with its packing.

Histochemical test can locate the presence of certain alkaloids. Justify this senstence by giving suitable examples.

Discuss the principles of isolation of laticiferous vessels and stone cells.

Give botanical source, Family and chemical constituent of Shigru.

Differentiate the fruits of Datura innoxia & Datura metal.

Difference between Withania somnifera and Withania coagulans.

Name the alkaloids of Maricha, Mention their Importance in Ayurveda.

Name the chemical constituents and uses of Atmagupta.

Why shape of Kuataja is recurved?

Name the botanical source family and chemical constituents of Saptaparni.

What is Indravaruni and Indrajava?

Distribution of alkaloids

Powder of Datura innoxia and Datura metal.

Trichomes of Vasaka and Datura.

Give botanical source family and chemical constituent of Shigru.

Name the chemical constituents and uses of Atmagupta.

Saptaparni

Indravaruni

[02 Marks]

Define alkaloids. Mention the chemical tests for its identity.

Name of the seed drugs containing Indole alkaloids. Mention histochemical tests for these alkaloids.

Trichomes of Vasaka and Datura.

Why tannin acid is used as an antidote in case of poisoning by alkaloids?

Name of alkaloids of Marich. Mention their importance in Ayurveda.

Give names of α -amino acids which are precursor to alkaloid.

What is stasotto method ?

In which drug urethane is used as antidote?

What are the antidote of strychnine?

Chapter 6:- Tannin

[10 Marks]

What are tannins? How they are classified?

Discuss the role of tannins in plant. How tannins are estimated?

Define tannins. What is the role of tannins in plants. Name the methods of their classification?

Define tannins. Mention the method of estimation and classification of tannins.

Name the fruit drugs containing tannin. Give their botanical source, family, chemical constituents and therapeutic uses.

[05 Marks]

Estimation of tannins.

Pseudotannins are not tannins comment this statement with suitable examples.

Mostly husk is removed from the seeds before expression pseudotannins are not true tannin comment this statement with suitable examples.

Write a note on Triphala mention its therapeutic properties.

Describe the preparation of Khadhirsar.

Name a bark drug of family Combretaceae. Give its botanical source and uses.

Give distinguishing tests for pale and black catechu.

Classification of tannin.

Aconites.

Umbelliferous fruits.

Elements of wood & their isolation.

Epidermal structure of leaf and their importance in pharmacognosy.

[02 Marks]

Define tannins.

Name the fruit drugs containing tannins.

Classification of tannins.

Chapter 7:- Fixed oil and waxes

[10 Marks]

What are fixed oils? Mention the composition of fixed oil and the method of evaluation of them.

Define fixed oil, fats and waxes. Describe the method of preparation of medicinal castor oil. Explain why its cake is not used as a cattle food like other seed cakes.

How fixed oil and waxes differ from each other? Discuss the evaluation of fixed oils.

What are lipid? Discuss in detail. Write a detail account on Nimba tail.

Collection of Ahiphena latex and its medicinal importance Endogenous factors effecting the crude drugs.

Bees wax and its importance in Ayurveda.

Adulterants of clove.

[05 Marks]

Explain the chemical nature of bees wax. Name its adulterants and methods of their detection.

Discuss the method of preparation of medicinal fixed oil used as purgative.

Bees wax and its importance in Ayurveda.

What are fixed oils and waxes? How will you evaluate them?

Extraction of fixed oil.

Evaluation of fixed oil.

Write on adulterants of beeswax.

Explain why fixed oil get rancid on storage.

Name the therapeutic importance of Jyotismati in Ayurveda.

Differentiate fixed oil form volatile oil.

How fixed oils are stored?

Explain why Erand oil is subjected for steaming process after collection.

Fixed oil and waxes.

[02 Marks]

How fixed oils are stored?

Explain why fixed oil gets rancid on storage.

Evaluation of fixed oil.

Explain why fixed oils get rancid after storage.

Fixed oil and waxes.

What are the difference between volatile oil and fixed oil?

What are the difference between Simple oil and mixed oil?

What is decolorization of oil?

What is demergination in fixed oil?

Refractive index

Acid value

Saponification value