B. Pharm(Ayu.) Final Year Examination: February-2023

	Rasashastra and Bhaishajya Kalpana – IV (Ayurved	ic Pharmaceutics)	
_		Time: 02:30 P.M. to 05:30 P.M. Marks: 100	
In	nstructions: 1. Every question is compulsory.  2. Every question bears the marks written on the right.	ght side.	
	SECTION-A		
1.	Explain Standardization method of Herbal and Herbo-minera	l drugs in detail.	10
	Answer any one out of two questions.  Describe Nasal-preparations in detail.		10

Describe Opthalmological preparation in detail.

3. Write short notes on any **Four** of the following: 20 A. Difference between Asava and Arishta

OR

B. Dhumapaana

C. Preparation of Kshaara-sutra

D. Dashaanga-lepa Sahastra-dhauta Ghrita

4. Answer any Five of the following: (two to three sentences) 10

A. Dose of Niruha-basti and Aasthaapana-basti

B. Dose of Kavala and Gandusha

Precautions while making Malahara-Kalpana

D. Packaging and storage of Kshaara-sutra

Packaging and storage of Sarjarasa malahara

F. Uses of Upanaaha

**SECTION-B** 

5. Describe types, Graahya-agraahya, Shodhana and Marana of Loha-dhatu 10

6. Answer any one out of two questions. 10

A Explain Shankha in detail.

**OR** 

B Explain Pravala in detail.

7. Write short notes on any **Four** of the following: 20

A. Nirutthikaran

Yashada-Jaarana

C. Saamanya and Vishishtha Shodhana of Tamra

D. Tankana

E. Shukti

8. Answer any **Five** of the following: (two to three sentences) 10

A. Dose and Anupaana of Tamra-bhasma

B. Dose and Anupaana of Rasa-sindura

C. Toxicity and antidote of Naaga

D. Four formulations of Loha

Two medicinal formulations of Muktaa E.

Two medicinal formulations of Zinc F.

B. Pharm(Ayu.) Final Year Examination : February-2023

## Dravyaguna –III (Ayurvedic Pharmacology)

Date: 14-02-2023

Tuesday

Time: 02:30 P.M. to 05:30 P.M.

Marks: 100

In	structions: 1. Every question is compulsory.  2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Explain the Concept of <i>Aushadhayogasya karmukatvam</i> (Mode of action of classical formulations) according to <i>Ayurveda</i> .	10
	Answer any one out of two questions. What are the factors responsible for controversy and steps to resolve it with example of <i>Pashanbheda</i> .	10
В	OR  Method of collection, preservation and storage of drug according to Ayurveda.	
	<ul> <li>Write short notes on any Four of the following:</li> <li>A. Write short not on Rakshogna Karma.</li> <li>B. Write short not on Saviryata avadhi.</li> <li>C. Resolve the controversy of Jivanti.</li> <li>D. Vishaktata lakshana of Dhatura and its management.</li> <li>E. Write short note on Impurities and purification technique of Guggulu.</li> </ul>	20
4.	Answer any Five of the following: (two to three sentences)  A. Shramahara Karma.  B. Ashukari karma.  C. Vayasthapan karma.  D. Botanical sources of Brahmi.  E. Shothahara karma.  F. Difference between Vyavayi and Ashukari.	10
	SECTION-B	
5.	Write about Astaloha and Panchasara in detail.	10
	Answer any one out of two questions.  Describe the drug <i>Bala</i> in detail.	10
В	OR Describe the Aushadhipanchamruta and Kshirtraya in detail.	
	<ul> <li>Write short notes on any Four of the following:</li> <li>A. What is the botanical source, <i>Veerya</i> and main action of <i>Rohitaka</i> and <i>Kharjura</i>.</li> <li>B. Synonyms, external morphology and actions of <i>Katuki</i>.</li> <li>C. Therapeutic action and formulations of <i>Parsikyavani</i> and <i>Karanja</i>.</li> <li>D. Write short note on <i>Kshirastaka</i>.</li> <li>E. Describe the <i>Rasapanchaka</i> and formulations of <i>Rasna</i> and <i>Punarnava</i>.</li> </ul>	20
8.	<ul> <li>Answer any Five of the following: (two to three sentences)</li> <li>A. What are the ingredients of Adhyapushpa.</li> <li>B. Write down Rasa-panchaka of Kapikachhu.</li> <li>C. Write down the formulations of Dadima and Jatamansi.</li> <li>D. What is Veerya and main action of Kupilu and Trivrit.</li> <li>E. What are synonyms of Palasha.</li> <li>F. Write down the dose of Ahifena and Bhanga.</li> </ul>	10

B. Pharm(Ayu.) Final Year Examination : February-2023

Forensic pharmacy &	Pharmaceutical Management
	Time: 02:30 P.M. to 05:30 P.M.

Date: 15-02-2023

W	Vednesday Marks: 100	
Ir	nstructions: 1. Every question is compulsory.  2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Discuss the Shops & Establishment act in brief.	10
2.	Answer any one out of two questions.  A. Write the objectives and functions of PCI in brief.	10
	OR  B. Discuss labeling and packaging as per D & C Act.	
2		20
3.	<ul> <li>Write short notes on any Four of the following:</li> <li>A. Discuss the patent filing procedure.</li> <li>B. According to the Drugs and Magic Remedies act, which classes of advertisements are not prohibited?</li> <li>C. Discuss the handling of drugs &amp; prescriptions by the pharmacist.</li> <li>D. How can animals be prevented from cruelty during experimentation?</li> <li>E. Discuss Narcotic drug legislation in brief.</li> </ul>	20
4.	<ul> <li>Answer any Five of the following: (two to three sentences)</li> <li>A. Define DCC and CDL.</li> <li>B. Define Pollution and Pollutant.</li> <li>C. Write any two examples of Psychotropic substances.</li> <li>D. Define schedule A.</li> <li>E. Which form should be used for the Application for a license to manufacture for sale of Ayurvedic/Siddha or Unani drugs?</li> <li>F. Define schedule E (I)</li> </ul>	10
	SECTION-B	
5.	Write various factors affecting the Establishment of Plant.	10
6.	Answer any one out of two questions.  A. Explain budgetary controls.	10
	OR  B. Explain scientific purchasing.	
7.	<ul> <li>Write short notes on any Four of the following:</li> <li>A. Discuss product layout versus process layout.</li> <li>B. Explain the problem of productivity stores organization.</li> <li>C. Explain window display.</li> <li>D. Explain different types of training.</li> <li>E. Sales promotion policies.</li> </ul>	20
8.	Answer any Five of the following: (two to three sentences)  A. Write any two names of Ayurvedic companies.  B. Define Marketing.  C. Quality Control.  D. Promotion.	10

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E. Define Advertisement.

F. Budget.

B. Pharm(Ayu.) Final Year Examination: February-2023

<b>Pharmaceutical</b>	Technol	logy of A	Avurvedic	Drugs - I
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Date: 16-02-2023 Time: 02:30 P.M. to 05:30 P.M. Thursday Marks: 100

Instructions: 1. Every question is compulsory.

2. Every question bears the marks written on the right side.

#### **SECTION-A**

- Explain importance of Stability study for Ayurvedic formulation with examples.
   Answer any One of the following:
   Write detail note on Incompatibilities.

#### OR

- B Explain the methods of coating of Tablets and coating defects in detail.
- 3. Write short notes on any Four of the following:
  A. Crystallinity and Polymorphism
  B. Pilot plan scale up techniques
  C. Pills and Lozenges
  - D. Dry and Wet granulation methodsE. Importance of Preformulations
- 4. Answer any **Five** of the following (two to three sentences):
  - A. Lubricants
  - B. Hygroscopicity
  - C. Master formula
  - D. Mottling effect
  - E. Batch Manufacturing Procedure
  - F. Shelf life

#### **SECTION-B**

- 5. Define Microencapsulation. Enumerate the various techniques for preparation of Microencapsulation and explain Air suspension method in detail.
- 6. Answer any **One** of the following:
- A Explain various evaluation parameters for Parenteral preparations.

#### OR

20

- B What are the evaluation parameters for Containers?
- 7. Write short notes on any **Four** of the following:
  - A. Vehicle for Parenteral preparations
  - B. Merits and demerits of Capsule
  - C. Soft gelatine Capsule
  - D. Targeted drug delivery system
  - E. Osmotic pumps and their applications
- 8. Answer any **Five** of the following (two to three sentences):
  - A. Storage of Capsules
  - B. Use of Amber coloured glass
  - C. Define Sustained drug delivery system
  - D. Advantages of Microencapsulation
  - E. Osmotic Tablets
  - F. Nanoparticles

B. Pharm(Ayu.) Final Year Examination: February-2023

Date: 17-02-2023		Time: 02:30 P.M. to 05:30 P.M
Friday		Marks: 100

Instructions: 1. Every question is compulsory.

2. Every question bears the marks written on the right side.

	SECTION-A	
1.	Explain Coagulation process and classification of Coagulants and Anti-coagulants.	10
	Answer any <b>One</b> of the following: Explain the drugs used in treatments of Hypertension. <b>OR</b>	10
В	Write detail note on drugs used in Asthma with their mechanism of actions.	
3.	<ul> <li>Write short notes on any Four of the following:</li> <li>A. Classification of Diuretics</li> <li>B. Iron deficiency Anaemia</li> <li>C. Classification of drugs used in treatments of Cough</li> <li>D. Drugs used in treatments of Angina pectoris</li> <li>E. Mechanism of urine formation</li> </ul>	20
4.	Answer any <b>Five</b> of the following (two to three sentences):  A. Examples of Anti-platelet drugs  B. Anti-diuretic drugs  C. Examples of Ayurvedic drugs used as Diuretics  D. Fibrinolytic drugs  E. Examples of Ayurvedic drugs used as Anaemia  F. Functions of Blood	10
	SECTION-B	
5.	What is Diabetes Mellitus? Classify Anti-diabetic drugs with their mechanism of actions.	10
	Answer any <b>One</b> of the following: Write a detail note on Immune reactions and drugs used as Immunosuppressants. <b>OR</b>	10
ь.		

- B Describe pathophysiology of inflammation and classify non-steroidal antiinflammatory drugs.
- 7. Write short notes on any Four of the following:
  - A. Classification of Antimicrobial drugs
  - B. Estrogen
  - C. Growth hormones
  - D. Classification of Anticancer drugs
  - E. Analgesic drugs
- 8. Answer any **Five** of the following (two to three sentences):

10

20

- A. Bacterial resistance
- B. Ayurvedic drugs used in the treatment of Menstrual abnormalities
- C. Name of Glucocorticoids
- D. Ayurvedic drugs used in the treatment of Psoriasis
- E. Ayurvedic drugs used in the treatment of Diabetes
- F. Astringents

B. Pharm(Ayu.) Final Year Examination: February-2023

Pharmaceutical A	nalysis	of Av	vurvedic	<b>Drugs</b>	-III
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Date: 20-02-2023 Time: 02:30 P.M. to 05:30 P.M. Monday Marks: 100

Instructions: 1. Every question is compulsory.

2. Every question bears the marks written on the right side.

#### **SECTION-A**

- 1. Give analytical profile of Asava and Arishta and explain the estimation of Reducing 10 Sugar in detail.
- 2. Answer any **One** of the following:

10

A What is C.G.L.P.? Explain Good Laboratory Practice (GLP) in brief.

#### OR

- B Explain determination of Volatile oil with diagram.
- 3. Write short notes on any Four of the following:

20

- A. Total Solid content
- B. Enumerate all the parameters for Churna preparation and explain L.O.D.
- C. Explain process standardisation with examples
- D. Saponification value
- E. Enumerate different types of Refractometer and explain Refractive index
- 4. Answer any Five of the following:(two to three sentences)

10

- A. Define: Specific gravity
- B. Define: Iodine value
- C. What is Quality?
- D. Enumerate classical tests for Bhasma preparations
- E. Why non-reducing sugar is so called?
- F. Which table is used to calculate % of Sugar from the % of Copper?.

#### **SECTION-B**

5. Components of Good Manufacturing Practice (G.M.P.) in brief.

10 10

6. Answer any One of the following:A Give analytical profile of Honey in brief.

#### OR

- B Differentiate between Quality Control & Quality Assurance and explain the Quality Control in brief.
- 7. Write short notes on any Four of the following:

20

- A. Give procedures to estimate Fat content in Milk
- B. Applications of AAS
- C. Nitrogen content in Tea leaves
- D. Concept of Quality Assurance in brief
- E. Minimum area and equipments required for Capsule section according to GMP
- 8. Answer any **Five** of the following: (two to three sentences)

10

- A. Name the procedure for the estimation of Sugar
- B. Test for unboiled Milk
- C. What is BMR?
- D. What is ISO?
- E. Test for artificial invert sugar in Honey
- F. How much minimum space required for the building according to GMP?

B. Pharm(Ayu.) Final Year Examination : February-2023

# Pharmacognosy of Ayurvedic Drugs - III Time: 02:30 P.M. to 05:30 P.M. Marks: 100

Date: 21-02-2023

Tuesday

ln	1. Everyquestion is compulsory.  2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	How the environmental & genetic factors affect on the raw drugs with suitable examples?	10
	Answer any one out of two questions.  Define volatile oil & its properties, classification tests and uses.  OR	10
В	What are secondary metabolites and discuss phytochemical screening in detail.	
3.	<ul> <li>Write short notes on any Four of the following:</li> <li>A. Soluble fibers</li> <li>B. Endogenous factors</li> <li>C. Ketones and Phenoles as volatile oil.</li> <li>D. Natural colours used in Pharmaceutical industries</li> <li>E. Cold extraction</li> </ul>	20
4.	<ul> <li>Answer any Five of the following: (two to three sentences)</li> <li>A. Give the latine name, family part used and uses of Jatamansi</li> <li>B. Swethchandan</li> <li>C. Give the latine name, family part used and uses of Krishnajeerak</li> <li>D. Nylon as fibre.</li> <li>E. Give the latine name, family part used and uses of Devadaru</li> <li>F. Give the latine name, family part used and uses of Ester group plant</li> </ul>	10
_	SECTION-B	10
5.	Give details regarding nutraceuticals and its importance in ayurveda.	10
	Answer any one out of two questions.  Describe details about Insecticides and Rodenticides.  OR	10
В	Detail description on plants that cure Cancer and Diabetes.	
7.	Write short notes on any Four of the following:  A. Swine-flu B. Prebiotics C. Toxic plants D. Narcotics E. Pesticides	20
8.	Answer any <b>Five</b> of the following: (two to three sentences)  A. Give the latin name, family part used and uses of <i>Shallaki</i> B. EPA & DHA  C. Give the latin name, family part used and uses of <i>Trivrit</i> D. AIDS  E. Give the latin name, family part used and uses of <i>Kulanjan</i> F. PUFA	10