B. Pharm(Ayu.) Third Year Examination: May- 2021 (Re-schedule on July-2021)

Dravyaguna – II (Ayurvedic Pharmacology)

Date: 27-07-2021 Time: 09:30 A.M. to 12:30 P.M. Tuesday Marks: 100 Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side. SECTION-A 1. Explain Samanpratyarabdha and Vichitrapratyarabdha in detail. 10 2. Answer any one out of two questions. 10 A. Discuss Shaka varga in detail. Explain specialty of Raj Nighantu with its classification. 3. Write a short note on any **Four** of the following: 20 A. Aharopyogi varga. B. Anuvasanopaga and Asthapanopaga. C. Dadhi varga. D. Stanyajanana and Stanyashodhana. E. Dhanwantari Nighantu. 4. Answer any **Five** of the following: (two to three sentences) 10 A. Define Arshoghna with examples. Any four examples of Phala varga dravyas. C. Jwarahara. Write properties of cow milk. D. E. Swasahara. Write types of Nadiya Jala. SECTION-B 5. Discuss Kumari in detail. 10 6. Answer any one out of two questions. 10 A. Write ingredients and collective actions of Panchapallava and Panchavalkala. Write botanical name, family, dose, actions, uses and formulations of Haridra and Shalmali. 7. Write a short note on any Four of the following: 20 A. Ashtavarga. B. Panchatikta. Write actions and uses of Manjistha. C. D. Ksharashtaka E. Discuss Narikela in brief. 8. Answer any Five of the following: (Write botanical name, family, part used and 10 single main action.) A. Agaru B. Madhuka

C. Ingudi D. Parisha E. Koshataki F. Bimbi

B. Pharm(Ayu.) Third Year Examination: May- 2021 (Re-schedule on July-2021)

Pharmaceutical Technology of Ayurvedic Drugs -I

Date: 28-07-2021 Wednesday

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

10

Marks: 100

Instructions: 1. Every question is compulsory.

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

SECTION-A

1. What are different powder dosage forms in Ayurveda? Explain problems arising during the preparation of powders. 2. Answer any one out of two questions. 10 A. What is the emulsion? Discuss their merits and demerits in details? What are liquid dosage forms? Explain their types and additives used in manufacturing of liquid dosage form? 3. Write a short note on any **Four** of the following: 20 A. Different types of additives B. Factors affecting stability of suspension C. Difference between Syrup I.P. & Syrup U.S.P. D. Difference between Syrup & elixir Identification tests for emulsion E. 4. Answer any **Five** of the following: (two to three sentences) 10 Antioxidants A. Eutectic mixtures В. Preservatives C. D. Diluents E. Effervescent powders F. HLB SECTION-B 5. Discuss types of suppositories their bases & explain manufacturing methods of 10 suppositories? 6. Answer any one out of two questions. 10 A. Discuss in detail types of ointment bases? Explain aerosols, their types, components & evaluation? 7. Write a short note on any **Four** of the following: 20 A. Semisolid bases B. Ideal requirements for suppositories C. Different types of creams D. Difference between gels and gellies What are the components of aerosol packaging? Explain the importance?

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

A. Define Bougies.B. preservativesC. PropellantsD. Counter irritantsE. Types of aerosols

pyrogens

F.

B. Pharm(Ayu.) Third Year Examination : May- 2021 (Re-schedule on July-2021)

	Į.	harmacology & Toxicology of	Ayurvedic Drugs -I
Date: 30-07-2021 Friday			Time: 09:30 A.M. to 11:30 P.M. Marks: 100
	Instructions: 1. Ex 2. Ex	very question is compulsory. Very question bears the marks wr	itten on the right side.
		SECTION-	-A
1.	Enlist various f factors of it.	actors which can modify effects	
2.	A Enumerate disadvanta	iges of Oral route. lotransformation of Drugs? Write	stration. Discuss the advantages and e note on Phase-1 reactions of Drug
3.	A. Ion channeB. TeratogeniC. Blood Brai	n Barrier (BBB). 7 and ionization affect the Drug Abs	20
4.	A. Define: AgB. PinocytosisC. Drugs metaD. Define: CheE. Drugs elim	bolised by Acetylation.	10
		SECTION-	
5.	Write classificat	ion and distribution of Cholinerg	gic receptors and drugs acting on it. 10
6.	Answer any One A Describe p	e of the following:	and classify Anti-emetic drugs
7.	Write short notesA. Types of SeB. CarminativeC. Proton pumD. Ayurvedic of	s on any Four of the following: izures.	20
8.	A. Ayurvedic IB. Name of Ch	e of the following: Laxative drugs. olinesterase reactivators. of action and adverse reactions of	of Levodopa.

D. Write name of Anti-depression drugs. E. Name of β -blockers.

F. Define and write name of two Antacids.

B. Pharm(Ayu.) Third Year Examination: May- 2021 (Re-schedule on July-2021)

Pharmacognosy of Ayurvedic Drugs - II

Date: 31-07-2021
Saturday

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

Marks: 100

Instructions: 1. Every question is compulsory.

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

SECTION-A

1. Discuss different pharmacopoeias of India in detail.

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2. Answer any one out of **Two** questions.

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A What is substitute? Discuss any two-substitute drugs with their identifying characters.

OR

- B Discuss various types of glycosides in general and name at least one drug containing each of them.
- 3. Write short notes on any **Four** of the following:

20

- A. Froth test
- B. What are marine drugs?
- C. Japanese Pharmacopoeia
- D. Note on Yastimadhu
- E. Explain coumarin glycosides are used in leukoderma
- 4. Answer any **Five** of the following: (two to three sentences)

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- A. What is galactoside?
- B. Importance of cardiac glycoside
- C. What is monograph?
- D. Define calcium oxalate crystals
- E. What is sapotoxin?
- F. What is adulterant?

SECTION-B

5. What are the importance of tannin in plant? Classify tannin in detail.

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- 6. Answer any one out of **Two** questions.
- A What are waxes? Discuss about Beeswax in detail

OR

- B Describe general morphological characters of Datura and Vasaka leaves.
- 7. Write short notes on any **Four** of the following:

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- A. Types of stomata
- B. Ranunculceous drugs
- C. Therapeutic importance of Kutaj and its various market brand
- D. Varieties of Marich
- E. Black and pale Catechu
- 8. Answer any Five of the following: (two to three sentences)

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- A. Biological source, family and uses of Erand
- B. Chemical constituents and therapeutic usage of Soma
- C. Biological source, family and uses of Kupilu
- D. Chemical constituents and therapeutic usage of Bala
- E. Biological source, family and uses of Jyotismati
- F. Chemical constituents and therapeutic usage of Kantakari

B. Pharm(Ayu.) Third Year Examination : May- 2021 (Re-schedule on July-2021)

Pharmaceutical Engineering

Date: 03-08-2021 Tuesday	Time: 09:30 A.M. to 12:30 P.M. Marks: 100
Instructions: 1. Every question is compulsory. 2. Every question bears the marks	
SECTIO	N-A
1. Explain mechanism & application of Ball mil	Il in detail.
 2. Answer any one out of Two questions. A Explain in detail colloidal mill? B Explain factors affecting size reduction ' 	10 ?
 3. Write short notes on any Four of the following A. Types of mixtures. B. Roller cutting mill. C. Mechanism of liquid mixing. D. Ultrasonic emulsifier. E. Cyclone Separator. 	ng: 20
 4. Answer any Five of the following: A. Define leaching. B. Define Decoction. C. Colloidal mill. D. Maceration. E. Standards of sieve. F. Types of mixing. 	
SECTION	N-B
5. Describe facors affecting drying in detail.	10
 Answer any one out of Two questions. A Explain in detail vacuum crystallizer? B Factors affecting the process of evaporation 	ion in detail
 7. Write short notes on any Four of the following A. Steam distillation. B. Drum dryer. C. Fluidized bed dryer. D. Tank Crystallizer E. Extraction. 	
 8. Answer any Five of the following: A. Define manstrum. B. Define Crystals. C. Spray drayer. D. Evaporating pan. E. Define Evaporation. F. Define Condensation. 	10

B. Pharm(Ayu.) Third Year Examination : May- 2021 (Re-schedule on July-2021)

Rasashastra & Bhaishajya Kalpana – III (Ayurvedic Pharmaceutics)

Date: 04-08-2021 Wednesday

Time: 09:30 A.M. to 12:30 P.M.

Marks: 100

Instructions: 1. Every question is compulsory.

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

SECTION-A

1. State importance of Pathya kalpana and describe any four of them.

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2. Answer any **One** out of two questions:

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- A. Write the ancient method of Arka preparation.
- B. Describe Narikel lavan in detail.
- 3. Write a short note on any Four of the following:

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- A. Apamarga Kshar
- B. Saptamusti Yusha
- C. Snehapaka and their lakshan
- D. Gomutra kshar churna
- E. Kasisadi taila
- 4. Answer any **Five** of the following: (two to three sentences)

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- A. What is Avartan in Sneha kalpana?
 - B. Ingredients and dose of Arka lavan.
 - C. Shelf life of Ghrita kalpana.
 - D. Name the types of Kshar kalpana.
 - E. Name five formulations of Taila kalpana.
 - F. Ingredients and use of Mishreya arka.

SECTION-B

5. Describe Pottali kalpana in detail.

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6. Answer any One out of two questions:A. Name the Uparasa and describe anyone in detail.

10

- B. Describe Jaypal.
- 7. Write a short note on any **Four** of the following:

20

- A. Kampillaka
- B. Vatsanabha Shodhan and its toxicity
- C. Varatika
- D. Gunja
- E. Hingula
- 8. Answer any **Five** of the following: (two to three sentences)

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- A. Dose and use of Rasasindura.
- B. Name two examples of Galastha kupipakva rasayan.
- C. Give two synonyms and formula of Navsar.
- D. Name two formulations of Kupilu.
- E. What is the colour of Kasis bhasma?
- F. Name four drugs of Schedule E(1).

B. Pharm(Ayu.) Third Year Examination: May- 2021 (Re-schedule on July-2021)

Pharmaceutical Analysis of Ayurvedic Drugs - II

Date: 05-08-2021 Thursday -

Time: 09:30 A.M. to 12:30 P.M.

Marks: 100

Instructions: 1. Every question is compulsory.

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

SECTION-A

- 1. Explain the Instrumentation of Gas chromatography with diagram wherever 10 necessary.
- 2. Answer any one out of two questions.

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- A. Instrumentation of HPLC with diagram.
- What is HPTLC? Explain sample application in HPTLC.
- 3. Write a short note on any Four of the following: A. Describe different procedure to prepare column as in Column chromatography.
 - B. Describe shapes and Types of columns used in GC.
 - Applications of HPLC in details. C.
 - Explain temperature programming used in GC.
 - Types of Injectors in H.P.L.C.
- 4. Answer any **Five** of the following: (two to three sentences)
 - A. Derivatization.
 - В. Types of Ion exchange resin.
 - Enumerate 6 different stationary phases used in TLC. C.
 - D. Name any two spray reagents with its detection of class of chemicals.
 - Enumerate 4 Non polar solvents. E.
 - F. Define:- Retention time

SECTION-B

5. What is E.M.R.? Explain instrumentation of U.V.Spectroscopy in detail.

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- 6. Answer any one out of two questions.
 - A. Explain the Flame photometry instrumentation with diagram in detail.
 - Instrumentation of Nephalometry with diagram.

7. Write a short note on any Four of the following: 20

- A. Applications of Fluorimetry and Phosphorimetry. Applications of Ion-exchange Chromatography.
 - Applications of Flame Photometry. C.
 - Explain classification of vibrations as per IR spectroscopy.
 - E. Applications of UV spectroscopy.
- 8. Answer any Five of the following: (two to three sentences)

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- A. Define: Frequency
- Source of I.R. radiation. В.
- C. Conditions to get I.R. spectra
- D. Red Shift.
- E. Snell's law equation.
- Define: Monochromator. F.