B. Pharm(Ayu.) Third Year Examination : August-2022

Rasashastra & Bhaishajya Kalpana – III (Ayurvedic Pharmaceutics)

Date:	25-08-2022 sday	Time: 09:30 A.M. to 12:30 P.M. Marks: 100
In	estructions: 1. Every question is compulsory. 2. Every question bears the marks written of	on the right side.
	SECTION-A	
1	Write about Kshirbala taila in detail.	10
2.	Answer any one out of Two questions. A Describe Mishreya arka. B Explain preparation method, dose, anupan and u	10 ases of Kshara Kalpana.
3.	 Write short notes on any Four of the following: A. Arka Lavaa. B. Jatyadi Ghrita. C. Sneha siddhi lakshan. D. Masi Kalpana. E. Arka Prashasti Lakshan. 	20
4.	 Answer any Five of the following: A. Give two examples of sneha kalpana used for NaB. Shelf life of Arka Kalpana. C. What is Avartan? D. Give an example of Avartan is Sneha Kalpana. E. Define Peya. F. Give two examples of Kshara Kalpana. 	asya.
5	SECTION-B Describe Rasasindura in detail.	10
		10
0.	Answer any one out of Two questions. A Enlist Uparasa with their english names and des B Describe Gandhak druti.	scribe Hartala
7.	Write short notes on any Four of the following: A. Antidote of any five dravyas of Rasashastra. B. Kampillaka. C. Schedule E (i). D. Kupillu E. Svitrari Rasa.	
8.	Answer any Five of the following: A. Effect of hot and cold water on virechan caused B. Two formulations of each of Vatsnabha and Bha C. What is Kankustha? D. 'Shulvari' is a synonym of which dravya? E. Which is the Agrahya Bhallataka?	

F. Name four formulations of Pathya Kalpana.

B. Pharm(Ayu.) Third Year Examination: August-2022

Dravyaguna – II (Ayurvedic Pharmacology)

Date: 26-08-2022

F. Kapittha

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

Friday	Marks: 100	
In	nstructions: 1. Each question is compulsory. 2. Each question bears the marks written on the right side.	
	SECTION-A	
1.	Discuss Ghrita Varga in detail.	10
2.	 Answer any one among following: A. Describe Raj Nighantu with its classification and specialities. B. Explain concept of samanapratyarabdha and vichitrapratyarabdha. 	10
3.	 Write a short note on any four of the following: A. Discuss basis of nomenclature of <i>Dravyas</i>. B. Shaka varga. C. Differentiate Mutrasangrahaniya and Mutravirechaniya. D. Explain importance of Phala Varga with suitable examples. E. Discuss Bhavapraksha Nighantu. 	20
4.	Answer any five of the following: A. Explain Swasahara karma. B. Write any two examples of Sandhaniya dravyas. C. Define Darana and Prapidana. D. Write properties of Ikshu. E. Enumerates types of Takra. F. Define Swedopnayana.	10
	SECTION-B	
	Discuss Haridra in detail.	10
6.	 Answer any one among following: A. Write botanical name, family, any two synonyms, vernacular name and habit of <i>Shigru</i> and <i>Saptaparna</i>. B. Write detail description of <i>Chandanadwayam</i>. 	10
7.	Write a short note on any four of the following: A. Madhuratraya B. Ashtavarga C. Panchapallava D. Panchamahavisha and Saptaupavisha. E. Lavana Panchaka	20
8.	Write botanical name, family, part used and single main action for any five of the following: A. Dronapushpi B. Parnabeeja C. Mudgaparni D. Kasamarda E. Jambir	10

B. Pharm(Ayu.) Third Year Examination : August-2022

Pharmacognosy of Ayurvedic Drugs - II

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

Date: 29-08-2022

Mor	nday	Marks: 100	
In	struc	tions: 1. Every question is compulsory. 2. Every question bear the marks written on the right side.	
		SECTION-A	
1.		merate Ayurvedic Pharmacopoeia of India, British Pharmacopoeia, Indian macopoeia & the criteria for standardization of drug in detail.	10
2.		wer any One out of two questions. Name substitute drugs of Astavarga commonly available in Market? Discuss any one in detail. What is glycoside? discuss in detail and write a note on drug containing saponin glycoside?	10
3.	Writ	te a short note on any Four of the following:	20
J,	A. B. C. D. E.	Classify the glycoside as per their linkage. Discuss in detail on any two marine drugs used as anticancer. Explain enzymatic hydrolysis is recommended in case of cynogenetic glycoside. Give process of hydrolysis of amygdalin. Write a short note on European Pharmacopoeia.	20
4.	A. B. C. D. E.	wer any Five of the following: (two to three sentences) What is galactoside? Importance of cardiac glycoside. What is O-glycoside? Importance of cynogenetic glycoside. Name an enzyme present in digitalis. What do you mean by substitute?	10
		SECTION-B	
5.		tituents and therapeutic uses.	10
6.	Ans A.	wer any One out of two questions. Collection of Ahiphen latex and its medicinal importance and discuss endogenous factors affecting the quality of crude drugs. Define bark. Name bark drug containing alkaloids. Describe the histological characters of one bark drug which you have studied.	10
7.	Writ	te a short note on any Four of the following:	20
	A. B. C. D. E.	Occurrence and distribution of alkaloids in plant. Why shape of kuataja is recurved? Give botanical source family and chemical constituent of Shigru. Describe the preparation of Khadhirsar. Extraction of fixed oil.	20
8.	Ans A. B. C. D. E.	wer any Five of the following: (two to three sentences) Biological source, family and uses of Sarpagandha. Evaluation of fixed oil. What is hydrolysable tannin? Biological source, family and uses of Arjun. Name the fruit drugs containing tannins. Biological source, family and uses of Marich.	10

B. Pharm(Ayu.) Third Year Examination : August-2022

Pharmacology & Toxicology of Ayurvedic Drugs -I

Date: 30-08-2022

Time: 09:30 A.M. to 11:30 P.M.

Marks: 100

Tues	sday	Marks: 100	
In	struc	etions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
		SECTION-A	
1.	Wha	at is drug? Enumerate sources and natures of drugs in details.	10
2.	Ans A. B.	wer any One out of two questions. Describe various factors affecting absorption and bioavailability of a drug. Discuss the advantages and disadvantages of drug administration through parenteral route.	10
3.	Wri	te a short note on any Four of the following:	20
	A. B. C. D. E.	Teratogenicity Principles of mechanism of drug action Phase – II reactions of drug metabolism Receptors which regulate gene expression How age and body weight modify drug effect?	
4.	Ans A. B. C. D. E. F.	Type – I allergic reaction Define – chemotherapy	10
		SECTION-B	
5.	Dis- acti	cuss cholinergic receptors. Classify anti- cholinesterase with its mechanism of on.	10
6.	Ans A. B.	swer any One out of two questions. Classify sedatives and hypnotics drugs with their mechanism actions. Classify drugs which reduce gastric acid secretion. Write their mechanism action.	10
7.	Wri	ite a short note on any Four of the following:	20
	A. B. C. D. E.	Differences between parasympathetic and sympathetic nervous system	<u> </u>
8.	Ans A. B. C. D. E. F.	Ayurvedic drugs used in the treatment of vomiting Give names of antipsychotic drugs Name of appetizers Ayurvedic drugs used as carminatives Write mechanism action of sodium valproate Write the name of adrenergic drugs	10

B. Pharm(Ayu.) Third Year Examination: August-2022

Pharmaceutical Technology of Ayurvedic Drugs -I

Date: 01-09-2022

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

Thursday

Marks: 100

Instructions: 1. Every question is compulsory	Instructions:	1. Every	question	is	compulsory.
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2. Every question bears the marks written on the right side.

- SECTION-A 1. Define and classified liquid dosage forms. Enumerate different types of additives 10 required for the liquid dosage forms. Define dosage forms. Discuss in detail different types of dosage forms in ayurveda? Discuss basic requirements for ophthalmic product? & their evaluation parameters? 3. Write a short note on any Four of the following: A. Manufacturing Additives B. Factors affecting stability of suspension Types of emulsion C. D. Difference between lotion and liniments Identification tests for emulsion 10 A. Biphasic dosage form elixirs B. C. Ophthalmic preparations D. Diluents E. Effervescence granules Define liniments F. **SECTION-B** 5. What are aerosols? Discuss their components & different types of aerosols? 10 6. Answer any one out of two questions. 10 Define suppositories. Explain method of preparation and evaluation parameters in detail. Define ointment? Enlist different types of ointment bases in details. 7. Write a short note on any **Four** of the following: 20 A. Ideal requirements for suppositories. В. Describe the importance of propellant in aerosols. C. Semisolid dosage form D. Difference between cold cream and vanishing cream Difference between paste & ointment E. 8. Answer any **Five** of the following: (two to three sentences)
- 2. Answer any one out of two questions. 10
 - 20
- 4. Answer any **Five** of the following: (two to three sentences)

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- A. Application of aerosols
- Vanishing cream B.
- C. **Passaries**
- D. Polymorphism of cocoa butter
- Propellant E.
- Suppository F.

B. Pharm(Ayu.) Third Year Examination : August-2022

Pharmaceutica	l Analysis	of A	vurvedi	c Drugs	- H	ſ
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Date: 02-09-2022 Friday

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

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Marks: 100

Ir	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1,,	Explain the difference between T.L.C. and H.P.T.L.C. Describe H.P.T.L.C. in detail.	10
2.	What is adsorption chromatography? Explain column chromatography in detail. OR	10
	What is chromatography? Explain general requirements to perform thin layer chromatography.	
3.	Write short notes on any Four of the following:	20
	 A. Explain the working of instrument in G.C. with diagram. B. Applications of Ion-Exchange chromatography. C. Describe the types of H.P.L.C. based on modes of chromatography. D. Application of T.L.C. in detail. E. Different types of paper chromatography. 	
4.	Answer any Five of the following: (two to three sentences) A. Derivatization. B. Define – chromatography. C. Enumerate natural resins used in Ion-Exchange chromatography. D. Name any four specific spray reagents. E. Name the detectors used in Gas chromatography. F. Retention time.	10
	SECTION-B	
5.	What is fluorescence? Explain different types of phosphorimeter in detail.	10
6.	What is E.M.R. ? Explain conditions to get I.R. spectra. Describe its instrumentation.	10
	OR	
	Explain the principles and instrumentation of nephelometry and turbidimetry.	
7	 Write short notes on any Four of the following: A. Instrumentation of U.V. spectroscopy. B. What is pH? Who invented pH? Describe the entire range of pH scale. C. Explain the theory of refraction and refractive index. D. Double beam spectrofluorimeter. 	20

F. Define – Phosphoroscence.

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

E. Applications of polarography.

A. Name different referactometers.

B. Wave length.C. Blue shift.

E. P.M.T.

D. Bathochromic shift.

B. Pharm(Ayu.) Third Year Examination: August-2022

Pharmaceutical Engineering

Date: 03-09-2022 Saturday	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.	Discuss objects & significance of size reduction in pharmacy. Describe mechanisms of size reduction with examples and enumerate applications of size reduction in Pharmaceutical Industry	10
2.	Answer any one out of two questions. A. Explain in detail methods of size separation B. Explain principle and mechanism of Powder mixing.	10
3.	 Write a short note on any Four of the following: A. Write advantages and disadvantages ball mill B. Draw the diagram of any emulsifier and explain in brief. C. Explain theory of extraction. D. Short note on Percolation. E. Standards for sieving. 	20
4.	Answer any Five of the following: (two to three sentences) A. Define: - Leaching. B. Explain application of any one Mill. C. Define: - Infusion. D. Define: - Size reduction. E. Advantages of cyclone separator. F. What is menstruums?	10
	SECTION-B	
5.	Write advantages, disadvantages, structure and function of vacuum dryer.	10
6.	Answer any one out of two questions.	10

- 6. Answer any one out of two questions.

 A. Explain theory of crystallization.
 B. Explain molecular distillation.

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

 A. Freeze drying.
 B. Factors affecting selection of drying equipments.
 C. Differentiate between drum dryer and tunnel dryer.
 D. Explain the need of distillation and condensation in Pharma industry.
 E. Short note on F.B.D.
- 8. Answer any **Five** of the following: (two to three sentences)

A. What is Crystallization?

- B. Write advantages of any dryer.
- C. Limitations of Mier's Super saturation theory.
- D. Disadvantages of tank crystallizer.
- E. Define: Crystals.
- F. Define: Magma.

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