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

Dravyaguna – II (Ayurvedic Pharmacology)

Date: 14-02-2023 Tuesday	Time: 09:30 A.M. to 12:30 P.M. Marks: 100
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Instructions: 1. Every question is compulsory.

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

SECTION-A

	SECTION-A	
1.	Discuss Ghrita Varga in detail.	10
2.	 Answer any one out of two questions. A. Explain <i>Bhavprakasha Nighantu</i> in detail. B. Discuss time period, author, classification and specialty of <i>Kaideva Nighantu</i>. 	10
3.	 Write a short note on any Four of the following: A. Discuss in brief about Vichitrapratyarabdha. B. Explain basis of Nomenclature according to Raj Nighantu. C. Mutrasangrahniya and Mutraviranjaniya. D. Taila varga. E. Snehana and Snehopaga. 	20
4.	Answer any Five of the following: (two to three sentences) A. Define Rukshana. B. Examples of Takra varga dravyas. C. Vednasthapana. D. Prapidana. E. Define Samanpratyarabdha. F. Trushnanigrahana.	10
5	SECTION-B Describe <i>Panchatikta</i> and <i>Panchamruta</i> in detail.	10
	 Answer any one out of two questions. A. Explain importance of <i>Gudduchi</i> with its detail description. B. Write botanical name, family, habit & habitat, part used and used of <i>Chandandwayam</i>. 	10
7.	 Write a short note on any Four of the following: A. Khadira. B. Lavana Panchaka. C. Discuss in brief about Methika. D. Yamaktrivruta. E. Chaturbhadra. 	20
8.	Answer any Five of the following: (Write botanical name, family, part used and single main action.) A. Krutavedhana B. Latakasturi C. Bijapoora D. Sarshapa E. Patalgarudi F. Karvellaka	10

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

Rasashastra & Bhaishajya Kalpana – III (Ayurvedic Pharmaceutics)

	e: 13-02-2023 nday	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	on the right side.
	SECTION-A	
1.	Explain an example of Masi Kalpana in detail.	10
2.	Answer any one out of Two questions. A Describe an example of Sneha Kalpana. B Describe Apamarga Kshara in detail.	. 10
3.	 Write short notes on any Four of the following: A. Pratisaraniya Kshara. B. Explain 'Sadhyet na ek vasare' in Sneha K C. Saptmusti Yusha. D. Murchana in Sneha Kalpana. E. Gulab Arka. 	alpana.
4.	Answer any Five of the following: A. Ingredients and colour of Pinda taila. B. Give example of Mrudupaka and Kharpaka SneC. Dose and use of Paniya Kshara. D. In which vessel should Arka be collected? E. Which Lavan should be taken in Arka lavan? F. Storage of Lavan kalpana.	eha Kalpana.
5	SECTION-B Name the Sadharan rasa dravya and describe anyon	e. 10
	·	10
0.	Answer any one out of Two questions. A Define Visha and explain Vatsnabha. B Write about Kupillu in detail.	10
7.	 Write short notes on any Four of the following: A. Jaypal. B. Describe a formulation of gandhak. C. Kasis. D. Makardwaja. E. Gairika. 	
8.	Answer any Five of the following: A. Antidote of gauripashan. B. State the colour of Rasasindura and Rasapuspa C. Part used of Kampillaka and Bhallataka. D. Pottali paka Pariksha.	

Give two synonyms of each of Bhallataka and Gairika.

Pathyapthya of Gandhak.

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

$Pharmacognosy\ of\ Ayurvedic\ Drugs-II$

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

Marks: 100

Date: 15-02-2023

Wednesday

In	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.		
	SECTION-A		
1.	Discuss history of pharmacopoeia and explain European pharmacopoeia in detail.	10	
	Answer any one out of Two questions. What is the current scenario of substitute and adulterant in Ayurvedic drugs? OR		
В			
3.	 Write short notes on any Four of the following: A. Enzymatic hydrolysis is recommended in case of cynogenetic glycoside B. Ayurvedic pharmacopoeia. C. Give classification of glycoside based on their linkage. D. Discuss the 3-stage process of hydrolysis of amygdelin. E. Details of two marine drugs used as anti-inflammatory 	20	
4.	Answer any Five of the following: (two to three sentences) A. What is S-glycoside? B. Importance of flavonoids C. Give biological source, family and uses of Aragvadha D. Give chemical constituents and therapeutic usage of Atasi E. Give biological source, family and uses of Kalmegh F. Give chemical constituents and therapeutic usage of Shatavari.	10	
	SECTION-B		
5.	What are tannins? Name bark drugs of tannin and give a detail account of any one bark drug containing them.	10	
	Answer any one out of Two questions. Discuss drugs containing pseudo alkaloids in detail. OR	10	
В	Write a review on fixed oil and fat. Discuss various extracting methods of fixed oils.		
7.	 Write short notes on any Four of the following: A. Occurrence and distribution of alkaloids in plants B. Goldbeater's test C. Condensed tannin D. Discuss on proto-alkaloids E. Properties of fixed oil 	20	
8.	Answer any Five of the following: (two to three sentences) A. Define drying oil B. Chemical constituents and therapeutic usage of Sarpagandha C. Define non-drying oil D. Chemical constituents and therapeutic usage of Punarnava E. Biological source, family and uses of Sthauneyaka F. Chemicl constituents and therapeutic usage of Vatsanabh	10	

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

Pharmacology & Toxicology of Ayurvedic Drugs -I

Date: 16-02-2023 Thursday			Time: 09:30 A.M. to 11:30 P.M. Marks: 100		
Ir	stru	ctions: 1. Every question is compulsory. 2. Every question bears the marks written on t	he right side.		
		SECTION-A			
1.	Det	fine Drug. Describe various nature and sources of Dru	igs.	10	
2.	Ans A B	swer any One of the following: Enlist various factors affecting Drug absorption Discuss Patient related factors in detail. Explain trans-cutaneous and trans-mucosal routes of	•	10	
3.	Wr	ite short notes on any Four of the following:		20	
	A. B. C. D. E.	Renal elimination of drugs. Plasma protein binding of drugs. Oxidation and Reduction reactions of drug metabol. Types of Allergic reactions. Enzyme linked receptors.	ism.		
4.	Ans	swer any Five of the following:		10	
		Drugs metabolized by Methylation. Pharmacy.			
	D. E. F.	Accumulation. Enzyme induction. Synergism.			
		SECTION-B			
5.		plain Cholinergic transmission. Classify Cholinergic of Chanism action of Anti-cholinesterase.	drugs and discuss	10	
6.	Ans A	swer any One of the following: Classification of Anti-parkinson's drugs. Explain n	nechanism of action of any	10	
	В	two classes of drugs. Classify drugs used in the treatment of Peptic ulcer action of any two classes of drugs.	and write mechanism of		
7.	Wri	ite short notes on any Four of the following:		20	
	A. B. C.	Anti-anxiety drugs. Digestants. Ayurvedic drugs used in Depression. Adrenergic receptors. Laxatives and Purgatives.			
8.	Ans	swer any Five of the following:		10	
	A. B.	Ayurvedic drugs used in the treatment of Vomiting. Types of Sleep.			

C. Name of α -blockers.

E. Emetics.

D. Write name of Antipsychotic drugs.

F. Ayurvedic drugs used in the treatment of Epilepsy.

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

Pharmaceutical Technology of Ayurvedic Drugs -I

Time: 09:30 A.M. to 12:30 P.M. Marks: 100

Date: 17-02-2023

Friday

In	astructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
۱.	SECTION-A What are different powder dosage forms in Ayurveda? Explain problems arising during the preparation of powders.	10
2.	Answer any One out of two questions. A. What is the emulsion? Discuss their merits and demerits in details? B. What are liquid dosage forms? Explain in detail?	10
3.	 Write a short note on any Four of the following: A. Types of suspension and their manufacturing procedures. B. Emulsifying agents C. Write a short note on Additives. D. Advantages of Powder dosage form in detail. E. What is lotion? Write a brief note on it. 	20
1.	Answer any Five of the following: (two to three sentences) A. Gargles. B. Ingredients of effervescent granules. C. Preservatives D. Disintegrating agents E. Eutectic mixture F. Throat paints.	10
	SECTION-B	
5.	What are aerosols? Classify them. Explain their container system.	10
5.	Answer any One out of two questions.A. Discuss general formulation and bases for semisolid preparations?B. What is Polymorphism in context to suppositories? Explain.	10
7.	 Write a short note on any Four of the following: A. Ointment bases in brief. B. Ideal requirements for suppositories C. Different types of creams D. Describe the importance of propellants in aerosols. E. Vanishing cream in brief. 	20
3.	Answer any Five of the following: (two to three sentences) A. Disadvantages of suppositories. B. Difference between cream and ointment. C. Limitations of aerosols. D. What is cocoa butter? E. Role of actuator. F. Use of Bougies.	10

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

Pharmaceutica	l Analys	is of A	vurvedic	Drugs -	П
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Date:	20-02-2023
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Monday

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

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Marks: 100

Instructions: 1. Every question is compulsory.

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

SECTION-A

- 1. Enumerate practical requirements for TLC and discuss the criteria to select the 10 mobile phase for TLC and write advantages of TLC.
- 2. Answer any one out of two questions. A. What is the difference between classical column chromatography and
 - H.P.L.C.? Describe the various column preparation methods in detail.
 - Discuss instrumentation of Paper chromatography in detail.
- 3. Write a short note on any Four of the following:
 - A. Enumerate types of detectors used in GC and discuss its ideal characteristics.
 - Enumerate types of gases used in G.C. with their selection criteria.
 - C. Discuss different types of chambers used in HPTLC.
 - D. Enumerate 10 Spray reagents used in T.L.C.
 - Discuss different types of columns used in GC. E.
- 4. Answer any **Five** of the following: (two to three sentences) 10
 - Define: Guard column
 - B. Define: Chromatograph.
 - C. What is S.C.O.T. column?
 - D. Ninydrin spray is used for?
 - E. NP-HPLC
 - Refractive index.

SECTION-B

- 5. Write the principle and instrumentation of Turbidimetry with diagram. 10
- 6. Answer any one out of two questions. 10
 - A. Give an account of Flame Emission spectroscopy.
 - Explain principles and instrumentations of Refractometry.
- 7. Write a short note on any **Four** of the following:
 - A. Applications of U.V.Spectroscopy.
 - B. Describe Conditions to get I.R.Spectra.
 - What is E.M.R.? Explain spectroscopy in brief. C.
 - D. Different types of vibrations in I.R.Spectroscopy.
 - Explain instrumentation of Nephalometer in brief.
- 8. Answer any **Five** of the following: (two to three sentences)
 - A. Bathochromic Shift.
 - B. Hypsochromic shift.
 - C. Source of U.V. radiation.
 - D. Difference between cuvettes used in U.V. and visible spectroscopy.
 - E. Enumerate different Monochromators.
 - F. Ampltitude.

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

Pharmaceutical Engineering

Date: 21-02-2023 Tuesday

Time: 09:30 A.M. to 12:30 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. Discuss factors affecting selection of extraction process? 10 2. Answer any one out of **Two** questions. 10 Explain in detail silverson emulsifiers? Define size reduction & discuss various methods in detail? 3. Write short notes on any Four of the following: 20 A. Colloidal mill. Maceration & Percolation. B. C. Positive mixture. D. Ultrasonic emulsifiers. Twin shell mixture. 4. Answer any **Five** of the following: 10 A. Difference between size reduction & Size Separation B. Standards of powder. C. Define leaching & Extraction D. Define emulsifiers.

SECTION-B

- 5. Discuss in detail fluidized bed dryer? 10
- 6. Answer any one out of **Two** questions. 10 Discuss in detail distillation equipments?
- В Define crystallization & describe Mier's theory in detail.
- 7. Write short notes on any **Four** of the following: 20

Principle of silverson emulsifier.

- A. Tray dryer.

F.

- Tank crystallizer. В.
- C. Distillation under reduced process.
- D. Evaporation equipments.

E. Objective of size reduction.

- Working principle of freeze drying.
- 8. Answer any **Five** of the following:

 - A. Define Magma.
 - B. Define evaporation.
 - C. Application of evaporating pan.
 - D. Principle of Microwave.
 - E. Define Crystals.
 - Define distillation & Condensation.