B. Pharm(Ayu.) Third Year Examination: May - 2018

Dravyaguna – II (Ayurvedic Pharmacology)

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

Date: 17-05-2018

Thu	ursday Marks: 100	Marks: 100	
Ir	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.		
	SECTION-A		
1.	Describe in detail the 'Ikshuvarga' with its neutritive and therapeutic importance.	10	
2.	Answer any one out of two questions.A. Describe the classification method and speciality of Bhavaprakaha Nighantu in detail.B. Define Vichitrapratyarabdha and compare it with Prabhava with eamples in detail.	10	
3.	Write a short note on any Four of the following:	20	
	 A. Viduhi. B. Madanpal Nighantu. C. Samanpratyarabdhatva. D. Krutanna Varga. E. Sandhana Varga. 	20	
4.	Answer any Five of the following:	10	
	 A. Enlist any two Snehopaga Dravya. B. Enlist any two Ashmaribhedana Dravyas. C. Define Purisha Virajaniya. D. Define Darana. E. Enlist variety of Dhanya. F. Define Vedanasthapana. 		
	SECTION-B		
5.	Write the Botanical name, habit, part used, Rasapanchaka and formoolation of Haridradwaya.	10	
6.	 Answer any one out of two questions. A. Define Mishraka Varga, describe in detail Chaturbhadra with its therapeutic indications. B. Describe in detail Latakaranja. 	10	
7.	Write a short note on any Four of the following:	20	
	A. Ksharapanchaka.B. Madhuratriphala.C. Panchapallava.D. Sapta Upavisha.E. Trivrutta.		
8.	Write Botanical name, part used, formoolation and main action of the following	10	
	(any Five): A. Shati. B. Methika. C. Kanchanara. D. Chincha. F. Kitamari		
	E. Kushmanda		

B. Pharm(Ayu.) Third Year Examination: May - 2018

Pharmaceutical Technology of Ayurvedic Drugs -I

Date: 18-05-2018

Friday

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

Marks: 100

In	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	How will you differentiate between an additives and contaminant? Explain how additives are useful in preparing Ayurveda formulation.	10
2.	Answer any one out of two questions. A. Explain the difference between a simple mixture and a suspension. What are the advantages and disadvantages of liquid dosage forms over solid dosage forms?	
,	B. Define suspension with its types. Explain its evaluation procedure.	
3.	 Write a short note on any Four of the following: A. Advantages and disadvantages of Emulsion preparation. B. Classification of powders. C. Short note on preservatives. D. Evaluation methods for ophthalmic products. E. Aromatic water with its formulation procedure. 	20
4.	Answer any Five out of six questions:	10
	 A. Two examples of diluents. B. Define – Infusion. C. Enumerate Anti-oxidants. D. Name two Natural flavours with its sources. E. Name ointment bases. F. Suspending agents – examples. 	
	SECTION-B	
5.	Give distinguishing characteristics between a cream and an ointment? Discuss various types of ointment bases.	10
6.	 Write any one out of two questions: A. Discuss the type of component used for generating pressure in aerosol preparation. Discuss various packing materials. B. What are skin creams? Describe one method of preparing cold cream. 	10
7.	Write a short note on any Four of the following:	20
	A. Gels and jellies.B. Shaving preparations.C. Lipstick.D. Indigenous hair dye.E. Suppository bases.	
8.	Answer any Five of six questions:	10
	 A. Define – Polymorphism. B. What are manicure preparation? C. What are Shampoos? 	
	D. Enlist ointment bases.E. Composition of poultice.	
	F. Which propellants are used in aerosols.	

B. Pharm(Ayu.) Third Year Examination: May - 2018

Pharmacology & Toxicology of Ayurvedic Drugs -I

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

	Date: 19-05-2018 Time: 09:30 A Saturday Marks: 100	Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
In	Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	·	
	SECTION-A		
1.	. What is pharmacokinetics? Describe briefly about drug metabolism.		10
2.	 Answer any one out of two questions. A. Which are the principles of drug action? Write briefly about m drug action B. What is Pharmacovigilance? Write briefly about various acreactions. 		10
3.	. Write a short note on any Four of the following:		20
	 A. Oral route – advantages & disadvantages B. Ion Channels as drug receptors C. Bioavailability D. Pharmacogenetics E. Competitive Antagonism 		
4. Answer any Five of the following: (two to three sentences)			10
	 A. Define - Pharmacodynamics B. Tolerance C. First order kinetics of drug elimination D. Define - Pharmacy E. Cutaneous route F. Clinical Trials 		
	SECTION-B		
5.	Write briefly about neurohumoral transmission. Describe briefly about transmission	t cholinergic	10
6.	 Answer any one out of two questions. A. Classify drugs which reduce gastric acid secretion. Write their maction. B. Classify anti-epileptic drugs. Write mechanism of action of sodium 		10
7.		, wiprouto.	20
	 A. Hypnotic drugs B. Omeprazole C. Antiemetics D. Antipsychotics E. Ayurvedic drugs for anxiety & stress 		2
8.	Answer any Five of the following: (two to three sentences)		10
	 A. Name two β - blockers B. Bulk purgatives C. Prokinetics D. Name two drugs used for depression E. How Ranitidine acts? F. Name two α - blockers 		

B. Pharm(Ayu.) Third Year Examination : May - 2018

		Pharmacognosy of Ayurvedic Dru	gs – 11	
Date: 21-05-2018 Monday			Time: 09:30 A.M. to 12:30 F Marks: 100	P.M.
I	nstru	ctions: 1. Every question is compulsory. 2. Every question bears the marks written on the	e right side.	
		SECTION-A		
1.		fine glycoside. Discuss in detail and write a note ocosides.	n drugs containing bitter	10
2.		swer any one out of two questions. Discuss the importance of pharmacopeia and crite. Ayurvedic drug as per API. Write a detail account on marine as a source of drug.	ria for standardization of	10
3.	Wr	ite a short note on any Four of the following:		20
	A. B. C. D. E.	Discuss the classification of glycoside by their linkag Write the estimation of saponin glycosides. Give the reason, why coumarin glycosides are used in What is Grignard Reaction? Define substitutions of drug in detail.		
4.	A. B.	what is morphological evaluation? Name anticancer drugs from marine source. Give biological source, chemical constitutions and use Give biological source, chemical constitutions and use Give structural formula of dienthrone. Define seed.		10
		SECTION-B	•	
5.	Dis anir	cuss the properties, various tests and distribution or nals with suitable examples and give detail account on	f alkaloids in plants and Dhattura.	10
6.	Ans A. B.	swer any one out of two questions. Explain extraction and isolation methods of alkaloids Write a note on tropane alkaloids and drugs containin		10
7.	Wri A. B. C. D. E.	te a short note on any Four of the following: Various tests to detect alkaloids. Role of alkaloids in plants. What is pseudo tannin? How tannin is evaluated? Discuss the classification of fixed oils, differentiate volume	olatile oil and fixed oil.	20
8.	Ans A. B. C. D.	wer any Five of the following: Structural formula of ephedrine. Give botanical name of various species used under he Name at least two market patent drugs of Vasaka. Give biological source, chemical constituents uses of	- -	10

Give biological source, chemical constituents uses of Karkat Shringi.

Name drugs of non-heterocyclic glycosides.

E.

B. Pharm(Ayu.) Third Year Examination: May - 2018

Pharmaceutical Engineering

Date: 22-05-2018 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 written of the compulsory.	on the right side.
SECTION-A	
1. Explain the various mechanisms of Size reduction in	detail 10
2. Describe different methods of Size separation in deta	il. 10
OR Write a detailed note on Industrial method of Extract	ion.
 3. Write short notes on any Four of the following: A. Twinshell mixer. B. Propeller mixer. C. Elutriation. D. Ultrasonic emulsifier. E. Ball mill 	20
4. Answer any Five of the following: (two to three sente	ences) 10
 A. Define Leaching. B. Types of Mixing. C. Maceration. D. Decoction. E. Colloidal mill. F. Standards of Sieve. 	
SECTION-B	
5. Explain theory of Crystallization and Vacuum crystal	
6. Define Evaporation. Write a detailed note on Evaporations. OR	factors affecting process of 10
Define Distillation and Condensation. Write any one	method in detail.
 7. Write short notes on any Four of the following: A. Distillation under reduced pressure. B. Drum dryer. C. Rotary evaporator. D. Fluidized bed dryer. E. Tank crystallizer. 	20
8. Answer any Five of the following: (two to three sente	nces)
 A. Principles of microwave. B. Define Magma. C. Tank crystallizer. D. Mier's theory. E. Spray dryer. F. Tunnel dryer. 	

B. Pharm(Ayu.) Third Year Examination : May - 2018

Rasashastra & Bhaishajya Kalpana – III (Ayurvedic Pharmaceutics)

Date: 23-05-2018 Wednesday		Time: 09:30 A.M. to 12:30 P.M Marks: 100	
I	nstructions: 1. Every question is compulsory. 2. Every question bears the marks writte	n on the right side.	
	SECTION-A		
	1 What is Yusha? Write about Saptmusti yusha in o	detail. 10	
2.	Answer any one out of two questions.A. Explain the classical method of extracting ArkB. Describe Paniya and Pratisarniya kshar in deta		
3.	 Write a short note on any Four of the following: A. Pathya kalpana B. Explain Avartan with an example C. Arka lavan D. Jatyadi ghrita E. Preparation of Arkapatan yantra 	20	
4.	 Answer any Five of the following: (two to three see A. Dose and use of Narikela lavan. B. Use of Triphala masi. C. Define Sneha kalpana with the general proport D. Which Paka of Sneha kalpana is used for Nasy E. Colour of Apamarga kshar and its dose. F. Name four examples of Arka kalpana. 	ion.	
5.	SECTION-B Name the Upvisha dravya and describe any two.	10	
	Answer any one out of two questions. A. Explain Rasagarbha pottali. B. Write about Rasamanikya.	10	
7.	 Write a short note on any Four of the following: A. Explain a Nirgandha yoga of Kupipakva rasaya B. Vatsnabha C. Parada murchana D. Navasar E. Kapardika 	an 20	
	Answer any Five of the following: (two to three ser A. Grahya Gandhak. B. Antidote of Jaypal. C. Kupillu shodhan. D. Two formulations of Kasis. E. Antidote of Gauripashan. F. Ingredients of Makardvaja.	ntences) 10	

B. Pharm(Ayu.) Third Year Examination: May - 2018

Pharmaceutical Analysis of Ayurvedic Drugs - H

Time: 09:30 A.M. to 12:30 P.M. Date: 24-05-2018 Marks: 100 Thursday Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side. **SECTION-A** 1. Differentiate between T.L.C. and H.P.T.L.C. Discuss how it is high in performance 10 than T.L.C. ? Explain. 2. Explain the principal and working of gas chromatography. What is the role of 10 temperature programming in G.C.? OR How the chromatography word derived? Explain the procedure of column packaging techniques in detail. 3. Write short notes on any **Four** of the following: 20 Describe in brief types of detectors used in G.C. В. Applications of T.L.C in detail. C. Types of Ion Exchange resin in brief. D. Explain elution techniques in column chromatography. E. What is the role of guard columns in H.P.L.C.? Explain. 4. Answer any **Five** of the following: (two to three sentences) 10 A. Define Chromatography. B. Derivatization. C. Enumerate non-destructive detection techniques in T.L.C. D. H.P.L.C. E. Edge effect. Define Retardation factor. **SECTION-B** 5. What is refrectometry? Explain its theory, principle and instrumentation in detail. 10 6. What is flame photometry? Explain the instrumentation in detail with diagram. 10 Explain the theory, principle and instrumentation of I.R. spectroscopy. 7. Write short notes on any **Four** of the following: 20 Fluorimetry in brief. A. В. pH metry in brief. Explain sample preparation in I.R. spectroscopy. D. Different types of burners used in F.E.S. Monochomators used in I.R. spectroscopy. 8. Answer any **Five** of the following: (two to three sentences) 10 Α. In plane bending vibrations. B. D.S.C.

C. Hypsochromic shift.

D. Wave length. E. Amplitude. F. Nernst Glower.