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

Dravyaguna – II (Ayurvedic Pharmacology)

Date: 24-12-2018

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

Mon	maky Marks: 100	
Ins	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	10
1.	Describe the basis of namanclature and its importance in Nighantu.	
	 Answer any one out of two questions. A. Describe the classification method and speciality of Raja Nighantu. B. Define Samana and Vichitrapratyarabdha and describe its therapeutic importance. 	10
	 Write a short note on any Four of the following: A. Abhishyandi. B. Kaidev Nighantu. C. Jala Varga. D. Dudhi Varga. E. Dhanya Varga. 	20
4.	Answer any Five of the following: A. Enlist any two Anuvasanopaga Dravya. B. Enlist any two Truptighna Dravyas. C. Define Angamarda Prashamana. D. Define Artava Janana. E. Enlist variety of Takra. F. Define Stanyajanana.	10
	SECTION-B	
5.		. 10
6.	 Answer any one out of two questions. A. Define Mishraka Varga, describe in detail Panchatikta with its collective action on D D M. B. Describe in detail Patol. 	10
7.	Write a short note on any Four of the following:	20
	A. Astavarga.B. Lavanapanchaka.C. Mahasneha.D. Panchavalkala.E. Trisharkara.	
8.	Write Botanical name, part used, formoolation and main action of the following (any Five): A. Vdumbara. B. Methika.Saptaparna. C. Kanchanara.Khadira. D. Jambu. E. Kustha. F. Ativisha.	; 10

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

Pharmaceutical Technology of Ayurvedic Drugs -I

Date: 26-12-2018 Wednesday			Time: 09:30 A.M. to 12:30 P Marks: 100	'.M.
In	struc	tions: 1. Every question is compulsory. 2. Every question bears the marks written on the	e right side.	
		SECTION-A		
1.		sify the liquid dosage forms. What are the additionable role of suspending agent in suspension formulations.	-	10
2.		wer any one out of two questions. Discuss ideal requirements of ophthalmic products. Under the during manufacturing of ophthalmic products? Explain powder dosage forms with its advantages effervescent granules.		10
3.	A. B.	te a short note on any Four of the following: Differentiate syrup and elixirs. What are identification tests for emulsion? How will you prepare collodion? Difference between lotion and liniment. What are the advantages of liquid dosage forms?		20
4.	A. B. C. D.	wer any Five of the following: (two to three sentence Define HLB value Gargles What are evaluation test for emulsion? Diluents Linctuses Emulsifying agents	s)	10
		SECTION-B		
5.	Def	ine suppositories. Explain ideal characteristics and adv	vantages of suppositories.	10
6.	Ans A. B.	wer any one out of two questions. Define semi-solid product. Explain different types of What are aerosols? Classify them. Explain types of actions are actions.		10
7.	Wri	te a short note on any Four of the following:		20
	A. B. C. D. E.	Polymorphism in cocoa butter. Comparison of liquefied gases and compressed gases Enlist methods of manufacturing of suppositories. De Difference between gel and jellies. Evaluation parameters of aerosols.		
8.	Ans A. B. C. D. E. F.	wer any Five of the following: (two to three sentence Limitation of suppositories. Application of aerosols. Cataplasms and its uses. Pessaries Narrate methods of manufacturing of ointments. What are electuaries?	s)	10

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

Pharmacology & Toxicology of Ayurvedic Drugs -I

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

Date: 27-12-2018

Thu	ursday Mark	s: 100	
In	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right	t side.	÷
	SECTION-A		
1.	What is Pharmacokinetics? Describe briefly about excretion o	f drugs.	10
2.	What are different sources of drugs? Write in detail about diplants.	rugs available from	10
	OR Enumerate factors which can modify drug effects. Write briefly	about age factor	
3.		·	20
	Answer any Five of the following: (two to three sentences) A. Define Pharmacology. B. What is Pharmacovigilence? C. Define plasma half life. D. Pharmacodynamics. E. Active transport of drug. F. Agonist.		10
	SECTION-B		
5.	Classify briefly about cholinergic receptors. Name drugs which	act on them.	10
	Classify alpha blockers. Write effects of alpha blocker on variou OR Name anticholinesteras drugs. Write there mechanism of action.		10
	Write short notes on any Four of the following: A. Prokinetic drugs. B. Ayurvedic drugs as laxatives. C. Beta-blockers. D. Levo dopa. E. Carminatives.		20
	Answer any Five of the following: (two to three sentences) A. What is epilepsy? B. Write name of two anti cholinergic drugs. C. Name two H ₂ -blockers. D. Write name of two sedative drugs. E. Name receptors on which adrenaline acts. F. Name two ayurvedic drugs used for anxiety.		10

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

Pharmacognosy of Ayurvedic Drugs – II

Date: 28-12-2018 Friday	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	e right side.	
SECTION-A		
1. What is glycosides? Discuss in detail. Write a note on druglycosides.	ug containing saponin 10	
2. Define substituent and adulterants with suitable example followed to confirm its authenticity. OR	es and discuss the method 10	
Give a detail account on Marine as a source of drug.		
3. Write short notes on any Four of the following:A. What is anthracene glycoside? Discuss in detail.B. History of digitalis.	20.	
C. Explain coumarin glycosides are used in leukodermaD. What are the importance of Pharmacopeia?E. Bitter value.		
4. Answer any Five of the following: (two to three sentence	s) 10	
 A. Define flavonoid glycoside. B. What is N-glycoside? C. Give two examples of bitter glycosides with botanica D. What are glycone and aglycone? E. Importance of cardiac glycoside. F. What is monograph? 	al source.	
5. What are Alkaloids? Discuss its solubility, preservation	and test to detect them.	
6. What are tannins? Give classification in detail and menti to detect them. OR Explain lipid in detail. Give its various physicochemical	on various chemical tests 10 parameters.	
 7. Write short notes on any Four of the following: A. Name two pattern products of Arjuna and discuss its B. What is deodorization and demargination? C. Discuss different fracture of bark. D. Give an account on solanaceous alkaloids. E. Write detail note on Ashwagandha. 	AND THE STATE OF T	
 B. Give name of the tissues found in seed. C. Write two examples of steroidal alkaloids with its us D. Define wax with example. E. Give Sanskrit name and chemical constituents of Ad 	Ses.	
F. Mention the chemical test to detect strychnine.		

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

Pharmaceutical Engineering

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

Date: 29-12-2018

Sau	urday Marks: 100	
In	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Explain construction, working, and disadvantages of ball mill.	10
2.	Answer any one out of two questions.A. Define extraction and explain industrial methods of extraction.B. Enumerate methods of size separation and explain any method in detail.	10
3.	Write a short note on any Four of the following: A. Planetary mixer. B. Types of mixing. C. Ultrasonic emulsifier. D. Cyclone separator. E. Triple roller mill.	20
4.	Answer any Five of the following: (two to three sentences) A. Uses of cutter mill. B. Application of hammer mill. C. Define: - Decoction. D. Ideal solvent. E. Application of cyclone separator. F. Define: - Maceration.	10
	SECTION-B	
5.	Explain principle and working of a spray dryer. Give schematic diagram.	10
6.	Answer any one out of two questions.A. Describe theory, advantages and disadvantages of azeotropic distillation.B. Discuss the Mier's theory of super saturation.	10
7.	 Write a short note on any Four of the following: A. Distillation under reduced pressure. B. Evaporating pan. C. Swenson walker crystallizer. D. Describe radiant heat dryer. E. Describe vacuum crystallizer in brief. 	20
8.	 Answer any Five of the following: (two to three sentences) A. Define: - Evaporation. B. Write principal of any evaporator. C. Give any two disadvantages of Steam distillation. D. Write advantages of any dryer. E. Principle of freeze drying. F. Construction of rotary evaporator. 	10

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

Rasashastra & Bhaishajya Kalpana – III (Ayurvedic Pharmaceutics)

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

Date: 31-12-2018

IVIO	nday	Marks: 100	
In	structions: 1. Every question is compulsory. 2. Every question bears the marks written	on the right side.	
	SECTION-A		
1.	Write importance of Pathya Ahara Kalpana.	10	0
2.	Answer any one out of two questions. A. Write Kshara Gunas and its importance. B. Give importance of of Lavana Kalpana.	10	0
3.	 Write a short note on any Four of the following: A. Narikela Lavana. B. Sneha Kalpana. C. Arka Kalpana. D. Kshara Kalpana. E. Triphala Masi. 	20	0
4.	Answer any Five of the following: A. Kshara Panchaka. B. Lavana Panchaka. C. Types of Yusha. D. Dravya used for Ghrita Murchchhana. E. Types of Takra. F. Two examples of Yamka Sneha.	1.	0
	SECTION-B		
5.	Write brief note on Parada Murchchhana.	10	0
6.	Answer any one out of two questions.A. Give detailed description of Rasa Sindura.B. Write short note on Visha Varga.	10	0
7.	 Write a short note on any Four of the following: A. Rasa Karpura preparation. B. Shodhana of Uparasa. C. Controversies of Navasadara. D. Gandhaka Shodhana. E. Kapardika Marana. 	20	0
8.	Answer any Five of the following: A. Dose and antidote of Gandhaka. B. Dose and indications of Rasapushpa. C. Antidote and formulations of Gunja. D. Shodhana and dose of Kampillaka. E. Toxicity and antidote of Visha. F. Synonyms and types of Haratala.	10	0

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

Pharmaceutical Analysis of Ayurvedic Drugs - II

Date: 01-01-2019 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. What is HPLC? Explain its principal and instrumentation with diagram.

2. Answer any one out of two questions.

10

- A. Discuss detectors in gas chromatography with diagram.
- B. Discuss instrumental up-gradation available in thin layer chromatography.
- 3. Write a short note on any Four of the following:

20

- A. Note on temperature programming in Gas chromatography.
- B. Enumerate different solvents used in T.L.C. and what are the criteria for selection of the mobile phase explain in brief.
- C. Applications of T.L.C. as applicable to Ayurveda.
- D. Applications of H.P.L.C. in detail.
- E. Classification of resins in ion exchange chromatography
- 4. Answer any Five of the following: (two to three sentences)

10

- A. What is isocratic elution?
- B. Name the stationary phases used in TLC.
- C. Name the spray reagents for detection of alkaloid and amino acids.
- D. Enumerate types of papers used in paper chromatography.
- E. What are the criteria for substance to be analyzed in GC?
- F. What is reverse phase chromatography?

SECTION-B

- 5. Define spectroscopy. Explain the instrumentation of flame photometry with 10 diagram in detail.
- 6. Answer any one out of two questions.

10

- A. Write down the instrumentation of u.v. spectroscopy with diagram.
- B. What is the difference between fluorescence and phosphorescence? Explain the different types of fluorimeters in brief.
- 7. Write a short note on any Four of the following:

20

- A. Vibrations in I.R. spectroscopy in detail.
- B. Abbe's refrectometer in brief with diagram.
- C. Note on differential scanning calorimeter(DSC).
- D. Write a short note on different monochromators.
- E. Applications of I.R. spectroscopy in brief.
- 8. Answer any **Five** of the following: (two to three sentences)

10

- A. What is wavelength? How it is expressed?
 - B. Nerns't glower.
 - C. Define:- Refractive index.
 - D. Amplitude.
 - E. Conditions to get IR spectra.
 - F. Cell made up of which material in IR spectroscopy? Give examples.