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

Rasashastra & Bhaishajya Kalpana – II (Ayurvedic Pharmaceutics)

Date: 17-05-2018 Thursday		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
Instruc	ctions: 1. Every question is compulsory. 2. Every question bears the marks written on the	right side.	
	SECTION-A		
1. Des	scribe types of process, packing, storage and shelf life of	f Guggulu.	10
2. Stat	te importance and shelf life of Churna kalpana. Descriil.	ribe Sitopaladi churna in	10
Def	OR ine Avaleha. Describe the method, paka-pariksha, dose	and use of Vasa-avaleha.	
3. Wri	te short notes on any Four of the following:		20
A. B. C. D. E.	Drakshadi gutika. Triphala guggulu. Guduchi Satva. Khandpaka. Gulab Sharkar.		
4. Ans	swer any Five of the following: (two to three sentences)		10
A. B. C. D. E.	Medias used for Guggulu shodhan. Define Panak and give an example. Shelf life and packing of Avleha kalpana. Dose, Anupan and use of Sanshamani Vati. What precaution should be taken while administering (formulations). Ingredients of Mudvika avleha.	Guggulu Yoga	
	SECTION-B		
5. Des	cribe Parpati kalpana in detail.		10
6. Wha	at is Makshika? Describe it in detail.		10
Desc	OR cribe the Maharasa - Sasyaka.		
7. Writ A. B. C.	te short notes on any Four of the following: Kharaliya Rasayan with an example. Abhrak shodhan and maran. Jaran. Kajjali Pariksha. Methods of Hingulotha Parada.		20
8. Ansv A. B. C. D. E. F.	wer any Five of the following: (two to three sentences) Describe any two Bhasma pariksha. Ingredients of Laghuvasantmalti rasa. Enlist the Maharasa dravyas with the English names. Define shodhan and state shodhan of Rasak. Why and for which dravya is Amrutikaran done? What is the pill size (weight) and colour of Tribhuvank	irti rasa ?	10

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

Dravyaguna – I (Ayurvedic Pharmacology)

Friday	Marks: 100		
Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on t	he right side.		
SECTION-A			
1. Describe Ashtavidha Veeryavada in detail.	. 10		
 Answer any one out of two questions. A. Write essay on any two Karmas related to Vajikarar B. Describe classification of Ahara & Aushadha Dra Samhita. 			
3. Write a short note on any Four of the following:	20		
 A. Compare Langhana and Bruhana Karma with examp B. Write effect of Ruksha and Snigdha Guna on Tridos C. Give detail description of Tikta Rasa. D. Write about Prabhava. E. What is the importance of Dravya. 	L .		
 4. Answer any Five of the following: A. Give four examples of Parthiva Dravya. B. Write about of Madakari Dravya. C. Explain Panchabhautika Samgathana of Vamana Dr. D. Enlist any two Dravyas having Amla Rasa. E. Give any four names of Tridosha Shamka Dravyas. F. Enlist any two Kandughna Dravya. 	ravya.		
SECTION-B			
5. Write essay on Dashamula in detail.	10		
 6. Answer any one out of two questions. A. Write botanical name, family, part used and main Karmarda, Shrungataka and Kasani. B. Explain five Dravyas having Ushna Veerya and I botanical name and family. 			
7. Write a short note on any Four of the following:	20		
 A. Write essay on Erand. B. Describe two Dravyas from Piperaceae family. C. Chaturjata. D. Write external morphological of Tamalpatra with its E. Write note on Arjuna. 	s habitat.		
8. Answer any Five of the following:	10		
 A. Write four synonyms of Bilwa. B. Write ingredients of Trikantaka. C. Write Rasapanchaka of Bharangi. D. Write about dose & formulations (any two) of Apara E. Write about varieties of Kutaja. F. Write chemical composition of Bhumyalaki. 	ajita.		
The chemical composition of bildinyalaki.			

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

Pharmacognosy of Ayurvedic Drugs - I

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

Date: 19-05-2018

Satı	urday Marks: 100	Marks: 100	
Iı	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.		
	SECTION-A		
1.	Describe the diagnostic characters of Malvaceae family and give the morphological characters of any one medicinal plant belongs to it.	10	
2.	Describe cultivation of crude drugs in detail with suitable examples. OR	10	
	Discuss Tissue culture as a source of drugs.		
3.	Write short notes on any Four of the following:	20	
	A. Describe pteridophytes and spermatophytes in detail.B. Aestivation.		
	C. Fleshy fruits.		
	D. Give botanical description of plant Datura.E. What do you mean by compound leaf? Classify them in detail with suitable examples.		
4.	Answer any Five of the following: (two to three sentences)	10	
	A. Give uses of Bilva.		
	B. Give name of two plants belonging to Asteraceae family.		
	C. What is Regma?		
	D. What are Genus and Species?E. Define Wood.		
	F. Write botanical name of Chakramarda and Aparajita.		
	SECTION-B		
5.	Give a detail account on mucilage and discuss any one drug containing them.	10	
6.	Differentiate dicot and monocot leaf.	10	
	OR	•	
	Define vascular bundle and give detail account on it.		
7.	Write short notes on any Four of the following:	20	
	A. Discuss pericarp in detail.		
	B. What do you mean by swelling factor?		
	C. Morphological classification of crude drugs.		
	D. What are the importance of starch grains in identification of crude drugs?E. Write a note on Mocharas.		
o		10	
٥.	Answer any Five of the following: (two to three sentences) A. Define pharmacognosy.	10	
	A. Define pharmacognosy.B. What is Siddha system of medicine?		
	C. Define collenehyma.		
	D. Define organized drugs.		
	E. Give biological source and uses of Babbula.		
	F. Identification test for honey.		

GUJARAT AYURVED UNIVERSITY, JAMNAGAR B. Pharm(Ayu.) Second Year Examination : May - 2018

Pharmaceutical Biochemistry

Date: 21-05-2018 Monday		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
Ir	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written	on the right side.	
	SECTION-A		
1.	What is β -oxidation? Describe the pathway.	10	
2.	Answer any one out of two questions.A. Describe active transport with suitable examplesB. Give a detailed note on DNA.	. 10 s.	
3.	Write a short note on any Four of the following:	20	
	 A. Calcium as a mineral. B. Factors affecting enzyme activity. C. Explain the structure and functions of F₁-F₀ ATI D. Classification of proteins based on nutritional in E. State significance of Gluconeogenesis. 		
4.	Answer any Five of the following:	10	
	 A. Define Osmosis. B. Define enzyme - Give examples. C. State the difference between lysozyme and lysos D. Explain ligases and lyases. E. Enlist the functions of sodium. F. Define anti-oxidant and give examples. 	some.	
	SECTION-B		
5.	Describe enzyme inhibition giving suitable examples	. 10	
6.	Answer any one out of two questions.A. Define xenobiotics. Describe in detail.B. Write a note on atherosclerosis.	10	
7.	Write a short note on any Four of the following:	20	
	 A. State the differences between colorimeter and sp B. Define lipids. Write a note on various functions of the colorimeter and sp C. What are heteropolysaccharides? D. Write a note on Cori's cycle. E. Write about various roles vitamin C has inside between colorimeter and sp 	of lipids.	
8.	Answer any Five of the following:	10	
	 A. What is the pI value of Amino Acids? B. Draw the structure of Triacylglycerol. C. What is the biochemical role of hyaluronic acid? D. Give structural detail of lactose and sucrose. E. Justify Mitochondria is of maternal origin. F. State the difference between type-I and type -II or and type -	?	

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

Physical Pharmacy and Pharmaceutics

Time: 09:30 A.M. to 12:30 P.M. Date: 22-05-2018 Marks: 100 Tuesday Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side. **SECTION-A** 1. Define viscosity. Discuss factor affecting viscosity and methods to determine 10 viscosity. 10 2. Answer any one out of two questions. Narrate isothermal and adiabatic process. Explain methods of determination of boiling point and freezing point. 20 3. Write a short note on any Four of the following: Types of non-Newtonian liquids. Thermochemistry. В. C. Osmosis and osmotic pressure. Refractive index. Types of solution. E. 10 4. Answer any **Five** of the following: Optical activity. A. В. Dipole moment. Concentration unit. C. Half life. D. E. Shelf life. F. Enthalpy. **SECTION-B** 5. Discuss various methods to determine surface tension of liquid. 10 10 6. Answer any one out of two questions. Define emulsion. Write advantages and disadvantages along with types of A. emulsion. Explain in detail/methods of particle size determination. 20 7. Write a short note on any Four of the following: Phase equilibrium. Differentiate flocculated and deflocculated suspension. В. C. Bulk density and tap density. Describe the process of detergency. Optical properties of colloids. 10 8. Answer any Five of the following: A. Eutectic mixture. Angle of repose. В.

Surface tension.

Zeta potential.

HLB.

D. Spreading co-efficient.

C.

E.

F.

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

Pharmaceutical Analysis of Ayurvedic Drugs - I

Date: 23-05-2018

Wednesday

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

Marks: 100

II	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Narrate oil and fat samples with special respect to analytical parameters.	10
2.	Answer any one out of two questions. A. Newer amendment for sampling in WHO guideline. B. Narrate types of analysis adopted in physical analysis of drugs.	10
3.	 Write a short note on any Four of the following: A. Instrumental methods for analysis for oil samples. B. Extractive value in different solvents and its role in analysis. C. Friability and hardness of tablet. D. Physical examination of solid dosage forms. E. Parameter used to find out unsaturation in oil samples. 	20
4.	Answer any Five of the following: A. Ash value. B. Acid insoluble ash. C. Total solid. D. Fluorescence analysis. E. Disintegration time of tablets. F. Specific gravity.	10
	SECTION-B	
5.	Discuss different methods for Avaleha and Pak preparations.	10
6.	Answer any one out of two questions.A. Narrate different mercurial preparation and analytical methods.B. Impact of fermentation variation in analytical profile in Asava preparations.	10
7.	 Write a short note on any Four of the following: A. Discuss role of lead acetate and sodium oxalate in sugar estimation. B. Volatile constituents of Avaleha and Pak. C. Extractive value in organic solvents. D. Define reducing sugar and its examples. E. Specific gravity and its importance to define physical characters of samples. 	20
8.	Answer any Five of the following: A. Qualitative tests for Copper and Aluminium. B. Qualitative tests for Gold and Silver. C. Consistency characteristics for Avaleha D. Alcohol content E. Refractance and its importance. F. Compounds of Mercury	10

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

Pharmaceutical Microbiology

Date: 24-05-2018 Thursday		·	Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
In	struc	etions: 1. Every question is compulsory. 2. Every question bears the marks written on the	e right side.	
		SECTION-A	,	
1.		te about the contributions of Louis Pasteur and Rober Microbiology.	t Koch in the development	10
2.	Wri	te a note on design of an ideal fermenter. OR		10
		te about the different types of culture media used for livation.	bacterial & fungal	
3.	Wri	te short notes on any Four of the following:		20
	A. B. C. D. E.	Differences between Gram+ve & gram-ve bacteria. Explain principle and application of dark field micro Write a short note on size, shape & arrangement of burite a note on salient features of fungi. What is transformation? Write about artificial transformation.	pacteria.	
4.	Ans A. B. C. D. E. F.	Define fermentation. Give examples. Define transduction & conjugation. What are mesophiles? Give examples. Write the role of baffles and sparger in a fermenter. Name any two bacterial diseases with their causative What are the contributions of Antonie van Leuwenhe Microbiology.	e organisms.	10
		SECTION-B		
5.	Exp	plain in detail the ELISA method.		10
6.	Exp	olain Type I & Type II hypersensitivity reactions. OR		10
	Wri	ite a note an antibiotic susceptibility testing on solid &	t liquid media.	
7.	Wri A. B. C. D. E.	ite short notes on any Four of the following: Write a note on tests used for microbial contamination Write a note on Rideal-walker test. Sterilization by dry heat. Inflammation. Complement fixation test.	on of water.	20
8.		swer any Five of the following: (two to three sentence	es)	10
	A. B. C. D.	Define sterilization & disinfection. Name two food intoxication diseases. Define epitope and antigen. Write the full form of: RIA and MIC.		

Define tyndallisation. Write the full form of : T_H Cell and EMB media.

E. F.