B. Pharm(Ayu.) Second Year Examination : May- 2021 (Re-schedule on July-2021)

Rasashastra & Bhaishajya Kalpana – II (Ayurvedic Pharmaceutics)

	ate: 26-07-2021 onday	Time: 02:30 P.M. to 05:30 P Marks: 100	.М.
	Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the		
	SECTION-A		
1	Define Avaleha Kalpana. Write about its method of Prepa Dose, Anupana and shelf-life period.	ration. Paka Pariksha.	10
2.	 Answer any one out of two questions. A What is Churna Kalpana? Explain its types, method of packaging with suitable example. B Define Vati kalpana with the example of Vyoshadi variable. 		01
3.			20
4.	Answer any Five of the following: A. Shelf-life of Sharkar Kalpana. B. Ingredients of Vasa Avaleha. C. Latin name and Family of Guggulu. D. Guda paka Pariksha. E. Shelf life of Guggula kalpa. F. Use of Chyavanprasha Avaleha.		10
5	SECTION-B		
	Describe the Ashta samskara of Parada in detail.		10
6.	 Answer any one out of two questions. A Define Kharaliya Rasayana. Describe the Role of Bha Rasayana. B What is shodhana? Describe the concept of Shodhana 	vana in Kharaliya	10
7.	 Write short notes on any Four of the following: A. Explain the concept of Jarana. B. Explain the process of Dhanya abhraka. C. Shodhana and marana of Makshika. D. Parpati Paka Pariksha. E. Ingredients, method of preparation, dose and use Laghuana. 	2	20
	Answer any Five of the following: A. Bhavana Dravya of Tribhuvan Kirti Rasa. B. Give the definition of Satvapatana. C. Use of Ananda bhairava Rasa. D. Apunarbhava Pariksha. E. Give the name of two formulation of Tuttha.		0

F. Dose and types of Shilajatu.

B. Pharm(Ayu.) Second Year Examination : May- 2021 (Re-schedule on July-2021)

Dravyaguna – I (Ayurvedic Pharmacology)

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

Date: 28-07-2021

We	lnesday Marks: 100	
Ir	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Describe the classification of Dravya on the basic of Chetan-Achetanabheda and Yonibheda.	10
2.	 Answer any one out of Two questions. A Mention different definitions of Rasa, its types, Panchabhautika compositions and action on Dosha, Dhatu and Mala. B Describe Veerya in detail. 	10 on
3.	 Write short notes on any Four of the following: A. Classification of Guna. B. Chhedana. C. Jeevaniya. D. Define Dravyaguna Vigyan and Dravya. E. Define Prabhava with examples. 	20
4.	Answer any Five of the following: A. Which Rasas are considering as Vidahi and Avidahi Rasas. B. Aahara Dravya according to Acharya Sushruta. C. Define Pichhila guna with examples. D. Which is the Laghuttama Rasa? Write its Panchabhautika composition. E. Enlist any two Virechanopaga Dravyas. F. Write the Panchbhautika composition of Tikta and Kashaya Rasas.	10
	SECTION-B	
5.	Define Panchakola and Kantakapanchamoola with its botanical name and Collective actions.	10
6.	Answer any one out of Two questions. A What is Nagar? Describe this Dravya in detail. B Write the Botanical name, Family, Rasapanchaka, Part used and main action of Ankola and Darbha.	10
	 Write short notes on any Four of the following: A. Chaturjata. B. Chaturushana. C. Laghupanchamoola. D. Write the botanical name, Family, Veerya, Part used and main action of Haritaki. E. Write short description on Nimba. 	20
8.	Answer any Five of the following:	
	A. Write the Part used and formulations of Eranda. B. Write the dosage and formulations of Arjuna. C. Write the adultrants of Vidanga. D. Write the name of dravyas which bark is used in medicine. E. Write the botanical name of any two drugs which belongs to family Combretaceae. F. Write any two drugs which are having katu rasa and ushna veerya.	10

B. Pharm(Ayu.) Second Year Examination : May- 2021 (Re-schedule on July-2021)

Pharmacognosy of Ayurvedic Drugs – I

Date: 29-07-2021 Thursday		Time: 02:30 P.M. to 05:30 P.M. Marks: 100	
Iı	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the	he right side.	
	SECTION-A		
1.	Describe Solanceae family with detail describe of Datura	plant. 10	
2.	 Answer any one out of two questions. A Give detail account on attachment of Anther to the of aestivation. B Discuss plant as a source of drug. 	filament. Discuss the types	
3.	 Write short notes on any Four of the following: A. Brief account on tissue culture B. Morphological differences between monocot and die C. Modification of stem. D. Classification of leaf. E. Discuss flower parts in detail. 	cot.	
4.	Answer any Five of the following: A. Define stem. B. Family key of Malvaccae. C. How to store medicinal plants? D. Definition of leaf. E. Give Latin name and family of Arka. F. Latin name and family of Guduchi.	10	
5.	SECTION-B What is Pharmacognosy? Discuss Ayurvedic system in de	etail 10	
	Answer any one out of two questions. A What are Carbohydrates? Give detail classification suitable examples. B Preparation of Aloe.	10	
7.	 Write short notes on any Four of the following: A. Unani System of Medicine. B. Taxonomical classification. C. Parenchyma and aerenchyma. D. Identification tests of carbohydrate. E. Phloem tissue. 	20	
8.	Answer any Five of the following: A. Chemical constituents of Honey. B. Define organized drugs. C. What is swelling factor? D. Uses of Brihat Gokshuru. E. Latin name of Karaya gum.	10	

F. What are Crystals?

B. Pharm(Ayu.) Second Year Examination : May- 2021 (Re-schedule on July-2021)

Physical Pharmacy and Pharmaceutics

Date: 02-08-2021 Monday		Time: 02:30 P.M. to 05:30 Marks: 100	P.M.
•	Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on	the right side.	
1	SECTION-A		
1.	the various factors influencing the various factors influencing the	Viscosityin details.	10
2.	Answer any One out of two questions. A Various methods to determine the Viscosity of Liq B Explain first and second law of Thermodynamics a	uids. nd derive its equation.	10
3.	 Write short notes on any Four of the following: A. Different types of Densities B. Application of Chemical Kinetics C. Difference between Newtonian and Non Newtonian D. Difference between Dielectric constant and Dipole E. Types of solutions 	o flore	20
4.	Answer any Five of the following: A. Thixotropy B. Order of reactions C. Half life D. Concentration unit E. Osmotic pressure F. Non Newtonian liquids		10
_	SECTION-B		
5.	Describe the various methods of determination of Surface	e Tension.	10
6.	Answer any One out of two questions. A Discuss the methods of purification of Colloidal Dis B Narrate methods for Particle size determination.	persions.	10
7.	 Write short notes on any Four of the following: A. Difference between Flocculated & De flocculated su B. Explain the derived properties of powders C. Angle of Repose D. Types of Densities of Powders E. Difference between Emulsion & Suspension 	spensions	20
8.	Answer any Five of the following:		
	A. Emulsifying agents B. Surface active agents C. HLB D. Micrometrics E. Dispersed phase F. Emulsion		10

B. Pharm(Ayu.) Second Year Examination: May- 2021 (Re-schedule on July-2021)

Pharmaceutical Analysis of Ayurvedic Drugs - I

Time: 02:30 P.M. to 05:30 P.M.

Marks: 100

Date: 03-08-2021

Tuesday .

Ι	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
1	SECTION-A Define Iodine value and avalein its most all 6.1.	
	Define Iodine value and explain its method of determination.	10
2.	Answer any one out of two questions. A. Enlist different types of physico-chemical parameters used for drug evaluation and explain any three methods. OR	10
	B. Give WHO-GMP guidelines for sampling of drug.	
3.		20
4.	Answer any Five of the following: A. Give significance of Saponification value. B. Define Acid value. C. Define Acetyl value. D. Give different instruments use for determination of Refractive index. E. Define Acid insoluble ash. F. Define Foreign matter.	10
5.	SECTION-B	
	Define Reducing sugar and explain its estimation.	10
6.	Answer any one out of two questions. A. Give examples of calcium containing drugs and explain estimation of calcium. OR	10
	B. Explain different types of extractive value in Avaleha and Paka preparation.	
7.	 Write short notes on any Four of the following: A. Total solid content in Asava and Arishta preparation. B. Why pH determination is important in Asava and Arishta preparation. Explain its determination. C. Distillation method for estimation of alcohol content. D. How determination of consistency is important. E. Define moisture content and explain its determination in Avaleha. 	20
8.	Answer any Five of the following: A. Give qualitative tests for Copper. B. Give qualitative test for Iron. C. Define Kshara with examples D. Give difference between Avleha and Paka E. Explain Killer Killani test for sugar. F. Give five examples of Asava and Arishta preparation	10

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR
B. Pharm(Ayu.) Second Year Examination : May- 2021 (Re-schedule on July-2021)

Pharmaceutical Biochemistry

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

Date: 31-07-2021

S	aturday .	Marks: 100
I	nstructions: 1. Everyquestion is compulsory. 2. Every question bears the marks written on the	e right side.
	SECTION-A	
1.	Define enzymes and write about various factors that affect	t enzyme activity. 10
2.	Answer any one out of two questions. A. Define and classify amino acids.	10
	B. Define and classify lipids.	
3.	Write short notes on any Four of the following: A. Epimers and mutarotation B. Cell membrane C. Differential centrifugation D. Protein folding E. Homopolysaccharides	20
4.	 Answer any Five of the following: A. What are exons and introns? B. Why mitochondria is of maternal origin? C. What is suicide inhibition? Give examples. D. Define Beer's and Lambert's law. E. What is primary active transport? Give examples. F. Define carbohydrates. Give examples. 	10
	SECTION-B	
5.	Write a note on diabetes mellitus.	10
6.	Answer any one out of two questions. A Write in detail the process of pentose phosphate pathw. OR	ay.
	B Write in detail the process of TCA cycle.	
7.	Write short notes on any Four of the following: A. Vitamin B3 B. Magnesium and phosphorus as micro nutrients C. Urea cycle D. Marasmus E. Vitamin C	20
8.	 Answer any Five of the following: A. What are the complications observed in obesity? B. Which vitamin is known as sunshine vitamin and why C. What is night blindness? D. What is the importance of Cori cycle? E. How many ATP's are generated/ utilized from one cycle. F. Define and give examples of free radicals. 	

B. Pharm(Ayu.) Second Year Examination : May- 2021 (Re-schedule on July-2021)

Pharmaceutical Microbiology

Date: 04-08-2021

Time: 02:30 P.M. to 05:30 P.M.

W	ednesday Marks: 100	
Ι	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
1	SECTION-A	
	Briefly describe contributions made by scientist in various fields of microbiology	y. 10
2.	Answer any one out of two questions. A Give applications of PCR. B Differentiate prokaryotes and eukaryotes.	10
	 Write short notes on any four the following: A. What is fluorescence microscopy? Give its application. B. Write a note on various arrangements of bacterial cells. C. Briefly describe the process of transduction. D. Write a note on batch fermentation. E. What are bacteriological media? Give its various types. 	20
4.	Answer any five of the following: A. How would you differentiate RNA and DNA? B. What are different types of flagella?. C. What is principle of catalase test? D. Give example of two spore former and two non-spore former bacteria. E. Write a note on artificially induced competence. F. What is micro and macro capsule? Give functions of capsule in a bacterial celebratery.	10 ell.
5	SECTION-B	
	What is antibiotics? How would you test its susceptibility against a microb?	10
6.	Answer any one out of two questions. A What is sterilization? Briefly describe sterilization by various chemical agen B Write a note on complement fixation	10 ats.
7.	 Write short notes on any four of the following: A. What are microbiological guideline for herbal drugs? B. How would you purify water? Discuss its principle. C. Write a note on sterility testing. D. What is antibiotic? How microbes develop resistance against a drug? E. Briefly describe membrane filtration technique. 	20
8.	Answer any five of the following: A. What is full form of DOD and CFT? B. Write full form of RIA and ELISA? C. Enlist type of cells of immune system D. What is disinfection? Give example of any two disinfectants. E. What is agglutination? Give example of agglutination reaction. F. What is phagocytosis?	10
