B. Pharm(Ayu.) Second Year Examination: May - 2019

Rasashastra & Bhaishajya Kalpana – II (Ayurvedic Pharmaceutics)

Time: 02:30 P.M. to 05:30 P.M. Date: 20-05-2019 Marks: 100 Monday Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side. **SECTION-A** 1. What is churna? State the ingredients, method, dose, use, shelf life packing and 10 storage of Hingvastak churna. 2. Describe Vyoshadi vati in defail. 10 OR Write method of preparation of Simhanada guggulu, its dose and use. 3. Write short notes on any Four of the following: 20 A. Mudvika avleha. Guggulu Shodhan. C. Current trends of Vati kalpana. Packing, storage and shelf life of Guggulu kalpana and Avleha Kalpana. Varti Kalpana. 10 4. Answer any **Five** of the following: (two to three sentences) Paka-pariksha of Vasa-avleha. Ingredients of Drakshadi gutika. C. Use of Chandrodaya varti. D. Sitopaladi churna – ingredients with proportion. E. Pathya-apathya of guggulu kalpana. Dose, anupan and use of Triphala guggulu. **SECTION-B** 5. Enlist the Maharasa dravyas and describe in detail Abhrak maran along with its 10 dose, anupan and use. 6. Describe Rasaparpati in detail. 10 OR What is Kharaliya rasayan? Write about Tribhuvankirti rasa. 7. Write short notes on any **Four** of the following: 20 A. Trividha patan samskar of Parada. B. Laghuvasantmalti rasa. C. Makshika shodhan and maran. D. Shilajatu shodhan. E. Sveta parpati. 8. Answer any Five of the following: (two to three sentences) 10 A. Colour of Kajjali and its use. Vikar nivaran of Tutha. Ideally, how much Parada can be obtained from Hingul in Hingulotha Parada? D. Give two formulations of Shilajit. Grahya Abhraka. Ε.

What is Parpati kalpa prayoga?

B. Pharm(Ayu.) Second Year Examination: May - 2019

Dravyaguna – I (Ayurvedic Pharmacology)

Date: 21-05-2019 Tuesday		-05-2019 Time: 02:30 P.M. to 05:30 P. Marks: 100	Time: 02:30 P.M. to 05:30 P.M. Marks: 100	
In	struc	ctions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.		
		SECTION-A		
1.	Des	cribe Rasapanchaka along with its Effect on Doshas.	10	
2.	Ans A.	wer any one out of two questions. Write classification of Aushadha dravya according to Charaka. OR	10	
	B.	Give definition, detail description about Madakari and Medhya.		
3.	A. B.	te short notes on any Four of the following: What is Prabhava? Explain Prabhava with suitable examples. Yoni bheda Explain Rasa and Anurasa. What is Dravyaguna and explain importance of Dravyaguna Shastra. Balya	20	
4.	Ans	wer any Five of the following: (two to three sentences)	10	
		Enlist dravya according to Viryabheda Which Rasas are considering as Saumya and Agney Rasas? Chakshushya Difference between Rasa and Vipak Ahar dravya according to Shushrut. Shukrarechan		
		SECTION-B		
5.	Giv	e detail note on Ashwgandha.	10	
6.	Ans A.	swer any one out of two questions. Define Dashmoola with its Latin name and collective actions. OR	10	
	В.	Write botanical name, synonyms, Rasapanchak, part used and main action of Amalaki and Haritaki.		
7.	Write short notes on any Four of the following:		20	
	A. B. C. D. E.	Give Part used, family, synonyms, formulations and habit of Arjuna. Give botanical name, family, part used, veerya and main action of Changeri. Give Part used, family, synonyms, dose and habitat of any one Deepan dravya. Panchkola Give botanical name, family, part used, veerya and main action of Twak.		
8.	Ans	swer any Five of the following: (two to three sentences)	10	
,	A. B. C. D. E. F.	Rasapanchaka and main action of Marich. Formulation and morphology of Chitraka Main action and Latine name of Nili. Trikantaka Rasapanchak of Sunthi and Adraka. Veery and botanical name of Darbha.		

B. Pharm(Ayu.) Second Year Examination: May - 2019

Pharmacognosy of Ayurvedic Drugs - I

Date: 22-05-2019

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

Wednesday Marks: 100		37 1 100	
In	struct	tions: 1. Every question is compulsory. 2. Every question bear the marks written on the right side.	
		SECTION-A	
1.	Defin	ne Leaf & give its detail classification with suitable examples.	10
2.	Ansv A.	wer any one out of two questions. Discuss Tissue Culture as a source of drugs. OR	10
	В.	Describe the diagnostic characters of Malvaceae family and give the morphological characters of any one medicinal plant belonging to it.	
3.	A. B.	te short notes on any Four of the following: Types of root. Shapes of leaf. Asexual method of propagation with advantages and disadvantages. Give botanical description on plant Datura. Schizocarpic fruit.	20
4.	Ans A. B. C. D. E. F.	wer any Five of the following: (two to three sentences) Describe pteridophyta. Define leaf. Nut Spike Give uses of Chakaramard. Biological source of Kumari.	10
		SECTION-B	
5.	Disc	suss in detail Homeopathy system of medicine.	10
6.	Ans	ower any one out of two questions. Define crude drugs. How they are classified? Discuss each classification in detail with suitable examples.	10
	В.	OR Define honey. Discuss its preparation. Mention its chemical constituents, purity test and uses.	
7.	Wri A. B. C. D. E.	ite short notes on any Four of the following: Discuss epidermis & cork in detail. Discuss phloem in detail. Identification tests for carbohydrate. Role of trichomes in Pharmacognosy Gado satwa.	20
8.	Ans A. B. C. D. E.	swer any Five of the following:(two to three sentences) What is Yoga and Naturopathy? Define organized drugs. Define Testa. Biological source and uses of Ashwagol. Preparation of Karaya gum. Biological source and uses of Babbula.	10

GUJARAT AYURVED UNIVERSITY, JAMNAGAR B. Pharm(Ayu.) Second Year Examination: May - 2019

Pharmaceutical Biochemistry

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

Date: 23-05-2019 Thursday		Time: 02:30 P.M. to 05:30 P.M. Marks: 100	
Instru	actions: 1. Every question is compulsory. 2. Every question bears the marks written on the	right side.	
	SECTION-A		
1. De	efine and classify carbohydrates.	10	
2. Ar A.	nswer any one out of two questions. Enlist differences between eukaryotes and prokaryotes. OR	10	
В.	Write about the various factors effecting enzyme activity.		
3. W. A. B. C. D. E.	Structure and function of cell membrane Enzyme classification Active transport	20	
4. At A. B. C. D. E. F.	Define PUFA. Give examples. What is the difference between R.E.R. and S.E.R.? Define Beer's and Lambert's law. What are coenzymes? Give examples. Define epimers. Give examples.	10	
e W	SECTION-B	10	
	rite a note on urea cycle.	10	
6. Ai A.	nswer any one out of two questions. What are xenobiotics? Write the phase I and phase II reac OR	tions.	
В.	Write a note on obesity.		
7. W A. B. C. D. E.	Cori's cycle Type I Diabetes Chlorine as a mineral	20	
8. Ai A. B. C. D. E. F.	What is the importance of gluconeogenesis pathway? What is hypernatremia and hyponatremia? What are the coenzyme forms of niacin, riboflavin, folic a What are the classical symptoms of riboflavin deficiency?	cid and pyridoxine?	

sugar.

B. Pharm(Ayu.) Second Year Examination: May - 2019

Physical Pharmacy and Pharmaceutics

Dat Fric	e: 24-05-2019 lay	Time: 02:30 P.M. to 05:30 P.M. Marks: 100
In	structions: 1. Every question is compulsory. 2. Every question bears the marks written on	the right side.
	SECTION-A	
1.	Explain non-newtonian type of flow with rheogram examples.	ns mechanism and suitable 10
2.	Answer any one out of two questions. A. Write influence of temperature and other factor on B. Write the difference between dielectric control and	
3.	 Write a short note on any Four of the following: A. Refractive index. B. Note on second law of thermodynamics. C. Explain work of expension. D. Theory of thermochemistry. E. Write the principle and working of Ostwald viscon 	20 meter.
4.	Answer any Five of the following: A. Self life. B. Entropy. C. Dielectric constant. D. Concentration units. E. Plastic flow. F. Sublimation.	10
5	SECTION-B Discuss methods of purification of colloid dispersions.	10
	Answer any one out of two questions. A. Explain in detail the term interfacial tension their to B. Narrate methods for particle size determination.	10
7.	 Write a short note on any Four of the following: A. Explain effect of Brownian movement. B. Describe the process of detergency. C. Difference between physical and chemical adsorpt D. Particle and powder characteristics. E. Angle of repose. 	ion.
8.	Answer any Five of the following: A. Porosity. B. True density. C. Zeta potential. D. Adsorbate. E. Give two examples of lyophobic colloids. F. Write two advantages of suspensions.	10

B. Pharm(Ayu.) Second Year Examination: May - 2019

Pharmaceutical Analysis of Ayurvedic Drugs - I

	turday	Time: 02:30 P.M. to 05:30 P.M. Marks: 100	
In	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the	e right-side.	
	SECTION-A		
1.	Explain the importance of sampling. Discuss sampling methods for different types of formulations in Ayurveda in brief.		
2.	Answer any one out of two questions.A. Explain different methods for evaluation of quality ofB. What are oils and fats chemically? Classify their parameters in detail.	tablets. n and explain any two	10
3.	 Write a short note on any Four of the following: A. Refractive index in ayurvedic preparation. B. Explain Foreign matter with its significance in ayurved. C. Alcohol soluble extractive value. D. Acid insoluble ash with its significance. E. What is RMPK values? Explain in brief. 	edic manufacturing .	20
4.	 Answer any Five of the following: (two to three sentences A. Define: - Acid value. B. Who invented pH scale? Enumerate methods of pH de C. Define: - Saponification value. D. Enumerate 5 drugs containing volatile oil. E. Which instrument is used for determination of volatile F. Enumerate two apparatus used to determine specific g 	etermination.	10
	SECTION-B		
5.	How many types of sugars you know in Ayurveda? Name for estimation of sugar and explain how will you estimate	the procedure you adopt reducing sugar.	10
6.	 Answer any one out of two questions. A. What do you understand by herbo-mineral formular quantitative estimation of calcium in bhasma preparat B. How do Asva and Arishta differ? Explain determinar Ashokarishta. 	ion.	10
7.	 Write a short note on any Four of the following: A. L.O.D with special reference to avaleha preparation. B. Qualitative tests for calcium and sodium. C. Explain different classical tests for evaluation of bhase D. Total solid content as quality control tool. E. Ash value with its significance. 	ma.	20
8.	Answer any Five of the following: (two to three sentences A. Enumerate 10 different formulations containing sugar B. Qualitative tests for Mercury. C. Which table you used for determination of sugar perced D. Difference between avleha and paka. E. Enumerate calcium containing 4 formulations. F. Role of lead acetate in sugar estimation.	in Ayurveda.	10

B. Pharm(Ayu.) Second Year Examination: May - 2019

Pharmaceutical Microbiology

Date: 27-05-2019

Monday

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

Marks: 100

Instructions: 1. Every question is compulsory.

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

SECTION-A

1. Write differences between Prokaryotes & Eukaryotes. 10 2. Write about the technique P.C.R. 10 OR Bacterial identification on the basis of carbohydrate metabolism. 3. Write short notes on any Four of the following: 20 Write a note on bacterial motility. Define transformation and write the mechanism of DNA transfer. Draw the structure & explain the Gram +ve cell wall. Anaerobic cultivation of organisms. Describe different types of virus morphology. E. 4. Answer any **Five** of the following: (two to three sentences) 10 Write the principle of phase contrast microscopy. В. Who is the father of bacteriology & modern microbiology? Name two acid fast organisms. D. Name two gram+ve & gram-ve bacteria. Name any two fungal diseases with causative organisms. Why bacteria cannot grow on SDA?

SECTION-B

- 5. Write a note on innate immune system.
- 6. Discuss the various methods of food preservation.

OK

20

10

Define and write a note on Physical methods of sterilization.

- 7. Write short notes on any **Four** of the following:
 - A. Write a note on drug resistance in bacteria.
 - B. Write a note on sterilization by dry heat.
 - C. What are the properties of disinfectants?
 - D. What are the mechanisms for autoimmunity?
 - E. Membrane filtration process.
- 8. Answer any **Five** of the following:(two to three sentences)
 - A. Define adaptive immunity.
 - B. What is the full form of R W Test & C M test?
 - C. Define pasteurization.
 - D. Why water is treated with alum & Chlorine?
 - E. Define autoimmune diseases.
 - F. Define bacteriostatic & bactericidal agents.