B. Pharm(Ayu.) Second Year Examination: November - 2015

Rasashastra & Bhaishajya Kalpana - II (Ayurvedic Pharmacentics)

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

Marks: 100

Date: 30-11-2015

Monday

In	estructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
l.	Write the definition of Varti Kalpana and describe Chandrodaya Varti.	10
2.	Answer any one out of two questions. A. Describe Churna Kalpana and write about Dashana Samskara Churna. B. Describe Vati Kalpana and write about Lavangadi Vati.	10
3.	Answer any Four out of five questions: A. Guggulu Kalpana. B. Panaka Kalpana. C. Sitopaladi Churna. D. Samshamani Vati. E. Vasa Avaleha.	20
4.	Answer any Five out of six questions: A. Use of Triphala Guggulu. B. Shelf life of Avaleha Kalpana. C. Shelf life of Sharkara Kalpana. D. Ingredients of Gulaba Sharkara. E. Guduchi Satva. F. Dose of Ghana Kalpana.	
	SECTION-B	
5.	Hingulottha Parada.	10
6.	 Write any one out of two questions: A. Give the names of Maharasa dravyas and describe Makshika in detail. B. Describe Rasa Parpati with Parpati Paka Pariksha. 	10
7.	Answer any Four out of questions: A. Patana Samskara of Parada. B. Abhraka Sattvapatana. C. Niruttha Pariksha and Apunarbhava Pariksha. D. Kajjali. E. Bodhana Samskara of Parada.	20
8.	Answer any Five of six questions:	10
	 A. Ingredients of Laghu Vasant Malati Rasa. B. Ingredients of Tribhuvana Kirti Rasa. C. Use of Shweta Parpati. D. Use of Tamra Parpati. E. Give the names of two formulations of Shilajita. F. Tuttha Shodhana. 	

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Dravyaguna – I

Date: 01-12-2015

F.

	e: 01-12-2015 Time: 09:30 A.M. to 12:30 P.M. sday Marks: 100	
In	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Describe the importance Dhanya Varga as medicine.	10
2.	 Answer any one out of two questions. A. Give definition of Rasa Panchaka and Pancha Bhautika composition of each one. B. Explain classification of Ahara and Aushadha Dravyas according to Sushruta Samhita. 	10
3.	Write a short note on any Four of the following:	20
	 A. Rasayana. B. Mention difference between Rasa and Vipaka. C. Compare Grahi Karma and Stambhana Karma with examples. D. Dravya: Definition, properties and its importance. E. Explain the concept of Prabhava with examples. 	
4.	Answer any Five of the following:	10
	 A. Classify the Dravya according to Karya Karana Bheda. B. Define Madakari Dravya. C. Give short description of two Medhya Dravyas. D. Write definitions of Veerya. E. Write main origin (Yoni) of Audbhid Dravya. F. Define Ruksha Guna with examples. 	
	SECTION-B	
5.	Describe the Dravya Aamalaki in detail.	10
6.	Answer any one out of two questions.A. Describe Dashamula in detail.B. Describe any four Vanaspatika Dravyas containing aromatic properties.	10
7.	Write a short note on any Four of the following:	20
	 A. Truna Panchamula. B. Write the therapeutic indications and properties with two formulations of Vidanga. C. Write the botanical name and family of Aamra, Changeri, Surana, Kadamba and Vansha. 	
	D. Write the variety, habitat and substitute of Kutaja.E. Give short description on Priyangu.	
8.	Answer any Five of the following: A. Write the part used of Tila and Vidari. B. Write the main four synonyms of Tulasi. C. Write two formulations with dosage of Ashoka and Arjuna. D. Write short external morphology of Eranda. E. Write the Rasa Panchaka of Ashwagandha.	10

Which are the chemical composition of Bhumyalaki?

B. Pharm(Ayu.) Second Year Examination: November - 2015

Pharmacognosy of Ayurvedic Drugs-I

Date: 02-12 Wednesday		М.
Instruc	ctions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
•	SECTION-A	
1. Wha	at is Inflorescence? Classify in detail.	10
	wer any one out of two questions. What is the role of tissue culture in Pharmacy. Describe the diagnostic character of Cruciferae family and give morphological characters of any one medicinal plant belongs to it.	10
A. B. C.	Define Spermatophyta. Enumerate it's classification. Discuss various types of attachement of anther to the filament. Explain compound leaf.	
A. B. C.	Swer any Five out of six questions: Define Rhizome. What is capsule? Define fruit. What is twisted aestivation? Functions of bract and bractioles. Give botanical name of any two plants belonging to family Apoacynace.	10
	SECTION-B	
	plain morphological and microscropical classification of crude drugs in detail h suitable examples.	10
6. Ans A. B.	swer any One out of two questions: Describe Ayurved and Siddha system of medicine in detail. What is carbohydrate? Discuss in detail.	10
A. B. C. D.	What is Babbul niryas? Give it's identity and purity tests. Write location of parenchymatons tissue and its various name in different parts of plants. What is mucilage? Discuss in detail and give botanical name of two drugs containing them. Give various chemical tests of carbohydrates.	20
Е.	Explain why Gums are called as pathological products of plants.	12
8. Ans A. B. C.	swer any Five of six questions: What do you mean by parenchyma? Name te types of trichomes. Define Pharmacognosy.	10

What are the reagents used to detect starch grains and wood elements?

Write biological source and family of Kokilaksha. Differentiate organised and unorganised drugs.

D. E.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR B. Pharm(Ayu.) Second Year Examination : November - 2015

Pharmaceutical Biochemistry

Date: Thurs	03-12-2015 sday	Time: 09:30 A.M. to 12:30 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.	Enlist the medical and industrial uses of carbohydrate	:
	Answer any one out of two questions. A. Explain structural organization of proteins. B. Write a note on vitamins as coenzymes.	10
3.	 Answer any Four out of five questions: A. What is electrophoresis? Write its applications. B. Give the classification of minerals. C. What is competitive inhibition? Explain with sure. D. Explain the pathophysiology of atherosclerosis. E. Write a short note on RNA. 	uitable examples.
4.	Answer any Five out of six questions:	10
	 A. What are the applications of Biochemistry. B. What are aldose and ketose sugars? C. Define isoelectric pH with suitable examples. D. What is the function of centrioles in a cell? E. Define Beer's and Lambert's law. F. Explain the difference between endoenzymes are 	nd exoenzymes.
	SECTION-B	
5.		t in our body.
6.		10
.7.	Answer any Four out of five questions:	20
	 A. Explain importance of vitamin 'A' in diet. B. Write short note on electron transport chain. C. What are macronutrients? Why are they called D. Define anti-oxidants. Name five artificial anti-oxidants is bio-transformation? Explain it briefly. 	xidants.
8.	Answer any Five of six questions:	10
2.	 A. Enlist the enzymes protecting us from free radio B. Name five deficiencies caused by water soluble C. Differentiate between type – I and type – II Dia D. Why is Iron essential in diet? 	vitamins.

What is the significance of Cori's cycle in our body?

Explain the structure of F_1 and F_0 ATP synthase.

E.

B. Pharm(Ayu.) Second Year Examination: November - 2015

Physical Pharmacy and Pharmaceutics

Date: 04-12-2015

· F.

Thixotropy.

Friday

Time: 09:30 A.M. to 12:30 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.	Differentiate first, second and third orders of reaction.	10
2.	Answer any one out of two questions. A. Give brief introduction of Newtonian and non-Newtonian liquids. B. Describe boiling point determination and vapour pressure of non-ideal solution.	10
3.	Write a short note on any Four of the following: A. Thermochemistry. B. Freezing point. C. Refractive index. D. Partition co-efficient. E. First law of thermodynamics.	20
4.	Answer any Five of the following: A. Enthalpy. B. Sublimation. C. Entropy. D. Optical activity. E. Thermochemistry. F. Viscosity.	10
5.	SECTION-B Define emulsion; write advantages and disadvantages of emulsion. Discuss types of emulsion along with factors affecting stability of emulsion.	10
6.	Answer any one out of two questions. A. Enumerate derived properties. How are they be evaluated? B. Describe any three methods of preparation of lyophobic colloids.	10
7.	 Write a short note on any Four of the following: A. Particle and powder characteristics. B. Factors affecting viscosity. C. Enumerate effect of mixing different types of colloids. D. Differentiate flocculated and deflocculated suspension. E. Phase equilibrium. 	20
8.	Answer any Five of the following: A. Surface tension. B. Sedimentation parameter. C. Anderson apparatus. D. Spreading co-efficient. E. Porosity.	10

B. Pharm(Ayu.) Second Year Examination: November - 2015

Pharmaceutical Analysis of Ayurvedic Drugs

Sature	day Marks: 100	•
<u>I</u> n	structions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Narrate importance of physic-chemical estimation in Ayurvedic drug analysis.	10
2. :	Answer any one out of two questions. A. Discuss different sampling techniques adopted in drug analysis. B. Discuss optical parameters used in oil analysis.	10
3.	 Write a short note on any Four of the following: A. Discuss alkaline hydrolysis of oil samples. B. Volatile oil containing drugs and separation of volatile oils. C. Moisture content and effect on stability. D. Ash value and impact of acid insoluble and water soluble ash. E. Friability of tablets. 	. 20
4.	Answer any Five of the following:	10
	 A. Ash analysis. B. Specific gravity. C. Extractive values in different solvents. D. Hardness of tablets. E. Moisture content. F. Refractive index. 	
	SECTION-B	
5.	Discuss different methods of analysis for metallic preparations.	10
6.	Answer any one out of two questions. A. Enumerate types of sugar present in Asava preparations. B. Avaleha and Pak preparations and its analytical profile.	1(
7.	 Write a short note on any Four of the following: A. Physical method used in Asava to evaluate alcohol content. B. Specific tests for Mercury, Iron and Lead after group separation. C. Consistency characteristic. D. Extractive value in organic solvents. E. pH value. 	20
8.	Answer any Five of the following:	10
	 A. Qualitative tests for Calcium and Sodium. B. Qualitative tests for Chloride and Sulphate. C. Volatile constituents in Avaleha and Pak preparations. D. pH value. 	

Flame test for selected elements.

F. Compounds of Calcium.

B. Pharm(Ayu.) Second Year Examination: November - 2015

Pharmaceutical Microbiology

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

Date: 07-12-2015

Monday			Marks: 100	
In		Every question is compulsor, Every question bears the man		
		SECT	TON-A	
1.	Describe cont	ribution of 'Louis Pasteur' a	nd 'Robert Koch' in microbiology.	10
2.	A. Write r	ne out of two questions. norphological classification ion of the same. nciple and working of elect		10 re and
3.	Write a short	note on any Four of the foll	owing:	20
	B. Bacterial	al requirements of bacteria. growth curve. on of fungi. bacilli.		
4.	Answer any F	ive of the following:		10
	B. Name twC. Name twD. Name twE. What is g	pacterial conjugation? To oxidase positive bacteria. To selective media and their to thermophillic bacteria. To thototroph and autotroph? Tokaryotes and eukaryotes.	ises.	-
		SEC	TION-B	
5.	Describe vari	ous methods of sterilization.		10
6.	A. Describe	ne out of two questions. bacteriological techniques to in brief hypersensitivity rea	•	10
7.	Write a short	note on any Four of the foll	owing:	20
	B. ELISA. C. Immuno	n and name of properties of globulins. on of filters. zation.	antigen.	
8.	Answer any I	ive of the following:		10
	C. Biologic	BOD ? Il form of RWC and CMC ? al indicator. acteriostatic and bactericida.		. · ·

Write full form of ELISA and RIA.

F.

Name factors affecting disinfectant action.

B. Pharm(Ayu.) Second Year Examination: November - 2015

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 08-12-2015 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	on the right side.
SECTION-A	10
 Write an essay on 'Good hygienic condition in disper 	
2. Answer any one out of two questions.A. Explain the parts of prescription.B. Describe about various closures used in pharmac	су.
 3. Write a short note on any Four of the following: A. Write the label for 'Gandhaka Malhara'. B. Write on bandages. C. Write about the importance of age and sex written. D. Role of pharmacist in patients counselling. E. what is Pharmaco vigilance? 	en in prescription.
 4. Answer any Five of the following: A. Define term posology. B. Define term superscription. C. Define term Tincture. D. Define term 'Incompatibilities'. E. What is Idiosyncrasy? F. Give meaning of Latin words "bid" and "hs" use 	ed in prescription.
SECTION-B	
Describe drug distribution system in hospital.	10
6. Write a short note on any Four of the following:A. Explain drug budget.B. Write in brief about processing of tablet.	. 10
 7. Write a short note on any Four of the following: A. What is hospital pharmacy? B. Write about classification of tablet. C. Explain about location and lay out of hospital p. D. Explain hot air oven. E. Describe community pharmacy. 	
Answer any Five of the following:	. 10
 A. What is clinical pharmacy? B. Define the term drug record. C. Define the term 'gaseous sterilization'. D. What is labelling? E. Write two names of sterilization equipments. 	
F. Write labels for 'Taila'.	