B. Pharm(Ayu.) Second Year Examination : May - 2017

# Rasashastra & Bhaishajya Kalpana - II (Ayurvedic Pharmaceutics)

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

Date Frid	e: 12-05-2017 Time: 09:30 A.M. to 12:30 lay Marks: 100	?.M.
In	structions: 1. Every question is compulsory.  2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	Describe the types, storage and shelf life of Churna Kalpana and write about Sitopaladi Churna.	10
2.	Answer any one out of two questions.  A. Write about Chyavanaprasha Avaleha in detail.  B. Describe Ghana Kalpana and write about Samshamani Vati.	10
3.	Answer any Four out of five questions:	20
-	A. Chandrodaya Varti. B. Mustakadi Pramathya.	
	C. Triphala Guggulu.	
	D. Khanda Paka. E. Lavangadi Vati.	
4.	Answer any Five out of six questions:	10
	A. Ingredients of Hingvashtaka Churna.	
	<ul><li>B. Dose of Vyoshadi Vati.</li><li>C. Use of Simhanada Guggulu.</li></ul>	
,	D. Shelf life of Gulaba Sharkara.	
	<ul><li>E. Use of Vasa Avaleha.</li><li>F. Packaging of Vati Kalpana.</li></ul>	
	SECTION-B	4
5.	Describe Shilajit in detail.	10
6.	<ul><li>Write any one out of two questions:</li><li>A. Describe Rasa Parpati with Parpati Kalpa Prayoga.</li><li>B. Give the names of Ashta Samskara of Parada and describe any two Samskara in detail.</li></ul>	10
7.	Answer any Four out of questions:	20
	A. Amritikarana.	•
-	<ul><li>B. Laghuvasant Malati Rasa.</li><li>C. Describe different Marana procedures.</li></ul>	
	D. Hingulottha Parada.	
	E. Lohitikarana.	•
8.	Answer any Five of six questions:	10
	<ul><li>A. Niruttha Pariksha.</li><li>B. Give the names of two formulations of Tuttha.</li></ul>	
	C. Use of Kajjali.	
	D. Rekhapurnatya Pariksha.	

E. Vimala Shodhana.

Makshika Shodhana.

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### $Dravyaguna-I\ (Ayurvedic\ Pharmacology)$

Date: 13-05-2017

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

Sat	urday	Marks: 100	
Ir	struc	etions: 1. Every question is compulsory.  2. Every question bears the marks written on the right side.	
		SECTION-A	
1.	Def	ine Dravya and write the importance of Dravyaguna Shastra.	10
2.	Ans A. B.	wer any one out of two questions.  Defining Guna, enlist the Gurvadi Guna with definition and examples.  Define Prabhava and write its importance in Dravyaguna Shastra with examples.	10
3.	Wri	te a short note on any Four of the following:	20
÷ .	A. B. C. D. E.	Chetana Dravyas. Astavidha Veerya. Sransana. Camparison between Grahi and Stambhana. Kashya, Chaksushya, Varnya.	
4.	Ans	swer any Five of the following:	10
	A. B. C. D. E. F.	Which is the Rukshatama Rasa? Write its Panchabhautika composition. Action of Katu Vipaka Dosha, Dhatu and Mala. Examples of Snigdha and Rukshna Dravyas. Enlist any two Vamanopaga Dravyas. Enumerate Lavana Rasa Atisara Janya Vikara. Vipakopalabdhi Upaya.	
		SECTION-B	
5.		ine Bruhat Panchamoola and Laghu Panchamoola with its botanical name and ective actions.	10
6.	Ans A. B.	wer any one out of two questions.  Write Botanical name, external morphology, part used, Rasapanchaka and main indication of Aswagandha and Vidanga.  Write Botanical name, external morphology, habit, habitate, Rasapanchaka and formoolation of any two Rasayana Dravyas.	10
7	- Wri	ite a short note on any Four of the following:	20
	A. B. C. D. E.	Kantaka Panchamoola.  Madhyama Panchamoola.  Katu Chaturjata.  Trikarshika.  Triphala.	
8.	Ans A. B. C. D. E. F.	Write dosage and doseage form of Nimba. Write Rasapanchaka of Aswagandha. Write about varieties of Musta. Write about part used and Veerya of Saireyaka. Write the synonyms showing the morphology of Apamanga. Write main action of Ankola.	10

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## Pharmacognosy of Ayurvedic Drugs - I

Date: 15-05-2017

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

Marks: 100

Mor	nday Marks: 100	
In	structions: 1. Every question is compulsory.  2. Every question bears the marks written on the right side.	
٠.	SECTION-A	
1.	What is inflorescence? Give detail classification with examples.	10
2.	<ul> <li>Answer any one out of two questions.</li> <li>A. Write down modification of Root and stem with suitable examples.</li> <li>B. Describe the diagnostic characters of Solanaceae and give morphological characters of any one medicinal plant belongs to it.</li> </ul>	10
3.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Describe capitulum and spadix.</li> <li>B. Explain various attachments of antherto the filaments.</li> <li>C. Discuss aestivation.</li> <li>D. Write a note on multiple fruit.</li> <li>E. Give morphological characters of Japa.</li> </ul>	20
4.	Answer any <b>Five</b> out of six questions:  A. What is thallophyta?  B. Define Rhizome.  C. Give Latin name and family of Chakramarda.  D. Write down floral key of menispermaceae.  E. What is cremocalp?  F. What do you mean by accessory whorls?	10
	SECTION-B	1.0
5.	Define pharmacognocy in detail. Discuss its historical back ground and its scope.	10
6.	<ul> <li>Write any one out of two questions:</li> <li>A. Discuss the role of crystals in pharmacognosy.</li> <li>B. What do you mean by polysaccharides? Enumerate your answer by suitable means and give a complete note on any one medicinal plant belongs to it.</li> </ul>	10
7.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Explain Siddha system of medicine in detail.</li> <li>B. What do you mean by organised and unorganised drugs? Justify with appropriate examples.</li> <li>C. Draw diagrammatic sketch of Shatavari root, label and discuss its importance in Ayurveda.</li> <li>D. Write a note on aerenchyma and collenchyma tissues.</li> <li>E. Give classification of carbohydrates in detail.</li> </ul>	20
8.	Answer any Five of six questions:	10
	<ul> <li>A. Define vascular bundle.</li> <li>B. Histochemical test for starch grains.</li> <li>C. Give biological source, chemical constituents and uses of Kumari.</li> <li>D. Give biological source, chemical constituents and uses of Methika.</li> <li>F. What is the adulterant of Babbul Nirvas.</li> </ul>	

What are the derivatives of glucose and galactose?

F.

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## **Pharmaceutical Biochemistry**

Date: 16-05-2017

Date: 16-05-2017 Tuesday		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
In	nstructions: 1. Every question is compulsory.  2. Every question bears the marks written on	the right side.	
	SECTION-A		
1.	Write a detailed note on RNA, its types and functions.		10
2.	<ul><li>Answer any one out of two questions.</li><li>A. Enlist the industrial and medical uses of carbohydra</li><li>B. Explain various modes of transport across cell mem</li></ul>	ates. ibrane.	10
3.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. What are free radicals and antioxidants?</li> <li>B. What are heavy metals? How are they useful in Ay</li> <li>C. Differentiate between plant and animal cell.</li> <li>D. Pantothenic Acid.</li> <li>E. Kwashiorkar.</li> </ul>	rurvedic preparations?	20
	Answer any Five of the following:  A. Why is nucleus called the brain of cell?  B. Define PUFA giving suitable examples.  C. Define epimer Give examples.  D. Define Beer's and Lambert's Law.  E. What are coenzymes? Give examples.  F. Why is Iron an essential element?		10
	SECTION-B		
5.	Write a note on urea cycle.		10
	<ul> <li>Answer any one out of two questions.</li> <li>A. Describe enzyme inhibition giving suitable example</li> <li>B. Write a note on electrophoresis (principle, types and</li> </ul>	es. l uses).	10
	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Why viruses and RBCs can not be considered as true.</li> <li>B. Define enzymes.</li> <li>C. Why vitamin D is called the Sunshine Vitamin?</li> <li>D. Explain Cori's cycle.</li> <li>E. Write a short note on gout.</li> </ul>		20
	Answer any <b>Five</b> of the following:  A. What is oxidative phosphorylation?  B. Define indigenous and exogenous obesity.  C. Write the other names of:		10
]	<ul> <li>(a) Vitamin B<sub>1</sub></li> <li>(b) Vitamin C</li> <li>(c) Vitamin D.</li> <li>Write the importance of TCA cycle.</li> <li>E. Write any four functions of calcium as a micronutrie Name the diseases which are caused by increase in:</li> </ul>	ent.	

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### **Physical Pharmacy and Pharmaceutics**

Date: 17-05-2017 Wednesday 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.	Discuss concepts and various factors influencing the viscosity.	10
2.	<ul><li>Answer any one out of two questions.</li><li>A. Explain importance of rate of reaction in pharmacy.</li><li>B. Explain methods of determination of boiling point and freezing point.</li></ul>	10
3.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Note on first law of thermodynamics.</li> <li>B. Enthalpy and entropy.</li> <li>C. Kirchoff's equation.</li> <li>D. Immuscible liquids.</li> <li>E. Optical activities.</li> </ul>	20
4.	Answer any Five of the following:  A. Order of reaction.  B. Sublimation.  C. Concentration unit.  D. Rheology.  E. Plastic flow.  F. Dielectric constant.	10
سے	SECTION-B	4.0
5.	What is the colloids? Discuss their classifications with suitable examples.	10
6.	<ul><li>Answer any one out of two questions.</li><li>A. Discuss the methods of determination of interfacial tension.</li><li>B. Define the powder and explain their characteristics in detail.</li></ul>	10
7.	Write a short note on any Four of the following:	20
	<ul> <li>A. Describe one experimental method for determining the zeta potential of colloids.</li> <li>B. Optical properties of colloids.</li> <li>C. The process of detergency.</li> <li>D. Angle of repose.</li> <li>E. Bulk density and tap density.</li> </ul>	f
8.	Answer any <b>Five</b> of the following:	10
	<ul> <li>A. Eutectic mixture.</li> <li>B. Micromeritics.</li> <li>C. Surface free energy.</li> <li>D. Adsorbant.</li> <li>E. Brownian motion.</li> <li>F. Give applications of intrinsic viscosity.</li> </ul>	

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### Pharmaceutical Analysis of Ayurvedic Drugs - I

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

Marks: 100

Date: 18-05-2017

Thursday

]	Instructions: 1. Every question is compulsory. 2. Every question bears the marks written on the right side.	
	SECTION-A	
1.	. How physico-chemical analysis methods is useful to ascertain quality of drug material? Discuss.	10
2.	<ul> <li>Answer any one out of two questions.</li> <li>A. Discuss oil and fat containing drugs with classification of oil and fats.</li> <li>B. Discuss preparation of sample for analysis as important task.</li> </ul>	10
3.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Importance of peroxide and acid value in oils.</li> <li>B. Optical methods of analysis in oils.</li> <li>C. How temperature affects analytical results in oils/fats.</li> <li>D. Differentiate disintegration and dissolution of tablets.</li> <li>E. Discuss solvent effect with respect to extractive value.</li> </ul>	20
4	<ul> <li>Answer any Five of the following:</li> <li>A. Moisture content.</li> <li>B. Ash value.</li> <li>C. RMPK value.</li> <li>D. Disintegration time of tablets.</li> <li>E. Specific quality.</li> <li>F. Foreign matters.</li> </ul>	10
5	SECTION-B  Discuss different methods of analysis for Assys and Arights propertions	10
5		10
6	<ul> <li>Answer any one out of two questions.</li> <li>A. How Avaleha and Paka preparations are different from Asava and Arishta analysis view point.</li> <li>B. Discuss classical analysis of metallic mineral preparations.</li> </ul>	10
7	. Write a short note on any Four of the following:	20
	<ul> <li>A. List of calcium containing drugs and method of estimation.</li> <li>B. Sodium and potassium analysis using flame photometry.</li> <li>C. Qualitative test for silver, lead and mercury.</li> <li>D. Distillation methods and quantitative determination of alcohol in sample.</li> <li>E. How determination of consistency is useful.</li> </ul>	
8	<ul> <li>Answer any Five of the following:</li> <li>A. Solubility in water/acids.</li> <li>B. Compounds of lead.</li> <li>C. Qualitative tests for copper and lead.</li> <li>D. Volatile constituents.</li> <li>E. Refractive index.</li> <li>F. Special gravity.</li> </ul>	10

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### Pharmaceutical Microbiology

Date: 19-05-2017 Friday		Time: 09:30 A.M. to 12:30 P.M. Marks: 100
Iı	nstructions: 1. Every question is compulsory. 2. Every question bears the marks written on the state of the s	he right side.
	SECTION-A	) 1
1.	Write differences between prokaryotes and eukaryotes.	10
2.	<ul><li>Answer any one out of two questions.</li><li>A. Write a note on bacterial transformation.</li><li>B. Write a note on light microscopy and dark background.</li></ul>	and microscopy.
3.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Culture media.</li> <li>B. Growth curve of bacteria.</li> <li>C. Morphology of fungi.</li> <li>D. Design of an ideal fermenter.</li> <li>E. Louis Pasteur.</li> </ul>	20
4.	<ul> <li>Answer any Five of the following:</li> <li>A. Functions of PCR.</li> <li>B. Functions of capsule and spore.</li> <li>C. Functions of light microscopy.</li> <li>D. Contributions of John Lister.</li> <li>E. Write the full form of VP test and MR test.</li> <li>F. Functions of Agitator.</li> </ul>	10
_	SECTION-B	
5.	Write a note on Validation of sterilization.	. 10
6.	<ul><li>Answer any one out of two questions.</li><li>A. Write a note on methods of sterility testing of pharm</li><li>B. Ag-Ab reaction methods due to precipitation and ag</li></ul>	
7.	<ul> <li>Write a short note on any Four of the following:</li> <li>A. Microbiological guidelines for herbal drugs.</li> <li>B. Hyper sensitivity reactions.</li> <li>C. Define and classify autoimmune disorders.</li> <li>D. Drug resistance.</li> <li>E. Bacterial count.</li> </ul>	20
8.	Answer any <b>Five</b> of the following:  A. Name any four methods of food preservation.  B. Write name of any four chemicals used for sterilizat C. Write about types and role of T-cell.  D. What is a biological indicator? Give Examples.  E. Functions of Ig-M.  F. What is cold sterilization?	ion.

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