JAMNAGAR

B. Pharm(Ayu.) First Year Examination May-2014 (OLD SYLLABUS)

Pharmaceutical Chemistry (Organic)

	•	- ,	
Date: 23-05-2014 Friday		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
Inst r	ructions: 1. Every question is compulsory. 2. Draw suitable diagrams wherever ne	cessary.	
2 75	SECTION-A		
1. W	/hat is thioalcohol? Give method of preparation,	properties and uses of it.	10
1. 4.	ive structures of the following (any five). Formaldehyde 2. Acetone 2-Pentene 5. m-toludine OR efine dipole moment give its application.	3. Nitro methane 6. Methanthiol	10
	•		
	What is E-Z nomenclature? Explain in brief. Write note on optical isomerism.		20
4. Ar	nswer any Five of the following:		10
A. B. C.	Explain formation of oxygen molecule. Define staggered conformation. Define Lewis acid and base. Define stereochemistry. Explain types of H-bond.		10
	SECTION-B		
5. De	efine SN_1 reaction. Write mechanism and ray ample.	v energy profile diagram with	10
6. De	fine resonance and resonance energy. Explain its OR	effects.	10
Wh	hat is electrophile? Explain in brief.		
7. An	swer any Four of the following:	•	20
A. B. C. D. E.	Give method of preparations of Alkyne. Describe nucleophile in brief.	alcohols.	20
8. Ans A.	swer any Five of the following: Give two examples of α, β unsaturated carbony	1 compound.	10

B. Define addition reaction.C. Define haemolytic fission.

E. Draw energy profile diagram of SN₂ reaction.F. Define carbonium ion.

D. Give uses of alkane.

JAMNAGAR

B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

Rasashastra & Bhaishajya Kalpana – I

Date: 2 Saturd		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
It	nstructions: 1. Every question is compulsory. 2. Draw suitable diagrams wherever necessary.		
1.	SECTION-A Define Saviryata Avadhi, state its importance and give Saviryata Avadhi of any five Kalpanas.	10	
2.	Describe Udaka Kalpana. OR Name the Panchavidha Kashaya Kalpana and describe Swarasa.	10	
3.	Write short note on any Four of the following: A. Kshira Paka. B. Laksha Rasa. C. Importance of Mana Paribhasha. D. Sudarshana Phanta. E. Dashamula Kwatha.	20	
4.	 Answer any Five of the following: A. Dose and use of Kharjuradi Mantha. B. Preperation method of Dhanyakadi Hima. C. Ingredients of Shadanga Paniya. D. Give two examples of Dravyas to be used in fresh state but need not to be taken in double quantity. E. What should be done if a Dravya is mentioned twice in a formulation? F. State the best season for collection of Aushadha Dravya in general. 	10	
e.	SECTION-B	10	
	Define Yantra and describe Dola Yantra and Patala Yantra.	10	
6.	Give classification of Rasa Dravya. OR Define Musha and describe any two.	10	
7.	 Write short note on any Four of the following: A. Varaha Puta. B. Kajjali. C. Grahya and Agrahya Parada. D. Describe Avapa and Nirvapa. Giving an example of each. E. Marana. 	20	
8.	Answer any Five of the following: A. State the equivalent of 1 Pala in Tola and grams. B. Give full form of GMP. C. State area required for manufacturing Avaleha as per GMP. D. The Dravyas of Kshara Dravya. E. Give symbol, English and Latin name of Parada. F. Dravyas of Pancha Mrutika.	10	

JAMNAGAR

B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

Sharira (Anatomy & Physiology)

Date: Mond	26-05-2014 Time: 09:30 A.M. to 12:30 P. ay Marks: 100	М.
Ir	nstructions: 1. Every question is compulsory. 2. Draw suitable diagrams wherever necessary.	
	SECTION-A	
1.	Describe terms "Ritu", "Kshetra", "Ambu" and "Bija" in reference of Garbhotapatti and heredity.	10
2.	Describe the component structures of the digestive system and write about small intestine in detail with figure.	10
	OR Describe the component structures of the mail reproductive system and write about penis in detail with figure.	
3.	Write short note on any Four of the following:	20
	A. Kidney with figure.B. Heart with figure.C. Chakshu Indriya.D. Umbilical cord.	
	E. Classification of bones according to the Ayurveda and modern science.	
4.	Answer any Five of the following: A. What is "Douhridini"? B. Write the divisions of the urethra. C. Write the location of pulmonary veins. D. Write the location and length of trachea. E. Write the names of arteries and veins of the nasal septum. F. Write the interrelationship of Mahabhuta and Gyanendriya.	10
ح	SECTION-B Eventoire "Doobe Dhata Malamulam bi Shaninam"	10
	Explain – "Dosha, Dhatu, Malamulam hi Shariram".	10
6.	What is respiration? Explain O ₂ -CO ₂ exchange in detail with diagrams. OR Nourishment of Shukra Dhatu with different Dhatu Poshana Nyaya.	10
7	Write short note on any Four of the following:	20
7.	 A. Write the Guna, Karma, Sthana and types of Pitta Dosha. B. Explain the Sanchaya, Prakopa and Prashamana of Tridosha in reference to seasons. C. Describe the functions of the heart and write about blood pressure. 	20
	D. Describe the Pachakagni (Jatharagni) in detail. E. Write the functions of the liver.	
8.	Answer any Five of the following:	10
	 A. Enlist the hormones of the supra renal gland. B. Write seats and functions of Apana Vayu. C. Write seats and functions of Tarpaka Kapha. D. Write Ashraya-Ashrayi Bhava of Dosha-Dhatu. E. Write the types of Oja. 	_

F. What is Nisthapaka?

JAMNAGAR

B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

Fundamentals of Ayurveda and Swasthavritta

Date: 2 Tuesda		Time: 09:30 A.M. to 12:30 P.M. Marks: 100	
In	structions: 1. Every question is compulsory. 2. Draw suitable diagrams wherever necessary.		
	SECTION-A	- 4	
1.	Explain importance and utility of Pramana in Chikitsa Shastra.	10	
2.	Describe Samanya – Vishesha Siddhanta.	10	
	OR Describe utility and aim of Ayurvediya Padartha Vigyana.		
3.	Write short note on any Four of the following: A. Classification of Guna. B. Ashtanga Ayurveda. C. Aptopadesha Pramana. D. Concept of Kaala. E. Types of Dravya.	20	
4.	Answer any Five of the following: A. Definition of Dik Dravya. B. Characteristics of Atma. C. Enlist Paradi Guna. D. Write the name of texts of Brihattrayi. E. Define Padartha. Write the characteristics of Padartha. F. Enlist Kaarana Dravyas.	10	
	SECTION-B		
5.	What is meant by "Dinacharya" & what is its relevance in pharmaceutical science?	10	
6.	Describe industrial health hazards and their prevention. OR	10	
	Describe occupational health hazards and their prevention.		
7.	 Write short note on any Four of the following: A. Sources and functions of carbohydrates. B. Importance of Dharaniya Vega in maintenance of health. C. Revised national TB control programme. D. Varsha Ritucharya. E. Concept of Swastha and Swasthya. 	20	
8	 Answer any Five of the following: A. Definition of Sadvritta. B. Enlist Adharaniya Vega. C. Enlist Vitamins. D. Definition of Ahara. E. Write names of two national health programmes. F. Functions of fats. 	10	

JAMNAGAR

B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

Sanskrit

Time: 09:30 A.M. to 11:30 A.M. Date: 19-05-2014 Marks: 50 Monday Instructions: Every question is compulsory. 1. विभक्तियों की व्याख्या देकर नाम लिखें और सविस्तर समझाईए । 10 2. "भाहेश्वरसूत्र" विषयक कथा लिखिए । तथा 'अच्' और 'हल्' प्रत्याहार को स्पष्ट 10 कीजिए । 2. 'जरदुगवगीध कथा' का बोध अपने शब्दों में लिख्ए । 3. Answer any Four of the following: 20 A. निम्नलिखित अव्यय का अर्थ बताते हुए वाक्य प्रयोग कीजिए (कोई चार) ३. पुरतः ४. सह B. संधि कीजिए । 9. महा + इन्द्र २. अनु + अयः ३. भो + अति ४. आरभ् + धम् ५. पुनर् + रमते C. निम्नलिखित रूपों की पहचान दीजिए (कोई दो) । २. देवयोः १. गजानाम ३. अग्नौ ४. भानू D. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए । "तृणानि भूमिरूदकं वाक्चतुर्थी च सुनृता । एतान्यपि सतां गेहे नौच्छिद्यन्ते कदाचनः ।।" आयुर्वेद एवं संस्कृत का समन्वय कीजिए । E. 4. Answer any **Five** of the following: 10 A. माहेश्वरसूत्र कितने है ? ''वसुदैवकुटुम्बकम्'' ये बात किस कथा में आती हैं । ्संख्या वाचक शब्द के प्रकार बताइए । **ि हितोपदेश के रचयिता का नाम लिखें** ।

व्यंजन कितने हे ?

F. संधि को कितने प्रकारों में विभाजित किया गया है ?

E.

JAMNAGAR

B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

English

Time: 09:30 A.M. to 11:30 A.M.

Date: 20-05-2014

Tueşday

Marks: 50 Instructions: 1. Every question is compulsory. 1. Write a paragraph in about 125 words on any one of the following: 10 (i) India vision 2020. (ii) T.V. – an idiot box. (iii) Internet - blessing or curse. 2. Answer any Two of the following: 10 Why did Eleanor and Suzanne's friendship end? (i) (ii) Why did Mona Marianna become unhappy? What was the effect of news on Rahim Khan about his wife's action? (iii) OR 2. Answer any Two of the following: (i) How did the boy spend his Saturday evening? (ii) What did the doctor say about different thermometers? (iii) Why was Rahim Khan unhappy? Answer any Four of the following: 20 A. "You are not going to die with this fever". В. "There goes the hard hearted devil". "I am going to die". C. D. "It is Satan's work". "You have to take three different medications". E. 4. Fill in the blanks with proper word given in bracket (Answer any Five): 10 The Principal delivered impressive speech. (a, an, the) Α. B. did you shout ? (Why, Who, What) The Sun rises the East and sets the West. (on, in, under) C. The gardener the tree everyday. (waters, will water, water) Is this the picture you were talking about ? (as, which, whom) E. The passengers just got down off the train (has, have, am) F.

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B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

Pharmaceutical Chemistry (Inorganic)

		Time: 09:30 A.M. to 12:30 P.M. Marks: 100
	question is compulsory. suitable diagrams wherever necessary.	•
	SECTION-A	
 What are the silent 	features of Mendeleeff's periodic law?	10
2. What is the importa		10
Define limit test. H	OR low it is done for Fe ⁺⁻ ?	
A. Define: VolumB. Define and claC. Write a note ofD. What are the units	· •	ffer solution and titrant.
B. Explain limit tC. Define : metalD. Explain the meE. What are prime	of the following: onic configuration in C, N, O, and Ne. test for arsenic. I indicators and iodimetry. echanism of buffer solution. eary standards? Name them. o indicators used in compexometric titra	tion.
What is the theory gravimetry.	SECTION-B of gravimetric analysis? Describe the	washing of precipitate in 10
6. What are the antiox	xidants? Explain preparation of Sodium	thiosulphate. · 10
Explain the mecha antioxidant.	OR anism of action of antioxidants. Expl	ain views of nitrogen as
A. Explain occursB. What are diffeC. Explain preparD. How are preci	n any Four of the following: rence and uses of calcium and potassiur erent reactions of lead and sodium? ration and uses of ammonium chloride. ipitate dried in gravimetry?	20 n.
 8. Answer any Five of A. What are the set of B. Explain uses of C. What are the of D. What kind of E. How are Fe ar 	source of arsenic and sulphur?	vimetry?

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B. Pharm(Ayu.) First Year Examination May-2014 (NEW SYLLABUS)

Pharmaceutical Chemistry (Organic)

)ate: rida		9:30 A.M. to 12:30 P.M. 100
Iı	Instructions: 1. Every question is compulsory. 2. Draw suitable diagrams wherever necessary.	
	SECTION-A	
1.	. Define thiophene. Give preparation and uses of thiophene.	10
2.	4 73	10 Bromobenzene Benzoic acid
	Short note on dipole moment.	7
3.	 Write short note on any Four of the following: A. Explain Pauling slater theory. B. Explain configuration. C. Note on geometric isomerism. D. Note on specific reactions. E. Write short note on V.B. theory. 	20
4.	 Answer any Five of the following: A. Define acid & base according to Lewis theory: B. Define R & S configuration. C. Difference between π & 6 bond. D. Test for saturation & unsaturation. E. Uses of ketone. F. Uses of alcohol. 	10
5	SECTION-B	•
	Define SN ₂ reaction. Write about SN ₂ reaction along with energy 1	
Ģ.	Define elimination reaction with example and narrate its application OR	on in pharmacy. 10
	What is substitution reaction? Explain SN ₁ reaction.	
7.	 Write short note on any Four of the following: A. Explain carbonium Ion. B. Explain carbanium Ion. C. Define alkane. Give its method of preparation. D. Define ketone. Give its method of preparation. E. Explain Walden inversion. 	20
8.	Answer any Five of the following: A. Aromatization. B. Define organic reaction mechanism. C. Uses of aldehyde. D. Define resonance energy. E. Draw a structure of (i) Aniline (ii) Toluene F. Friedal craft reaction.	