

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Sanskrit

Date: 30-11-2015
Monday

Time: 09:30 A.M. to 11:30 A.M.
Marks: 50

Note : All questions carry equal marks.
Every question is compulsory.

1. विभक्तियों कितने प्रकार की होती हैं ? सविस्तार समझाईए । 10
2. "जरद्गवगीध" कथा अपने शब्दों में लिखिए । 10

OR

"लुब्धविप्रवृद्धव्याघ्र" कथा अपने शब्दों में लिखिए ।

3. Answer any Four of the following : 20

A. सन्धि कीजिए (कोई चार)।

- (१) मधु + अरि (२) रामस् + शेते (३) महा + ईश
(४) आयुः + वेद (५) पौ + अन (६) श्री + ईश ।

B. निम्नलिखित नामरूपों की पहचानकर कीजिए (कोई दो)।

- (१) ऋषिणां (२) अस्माकं (३) माता (४) देवस्य ।

C. निम्नलिखित धातु रूप लिखिए (कोई दो)।

- (१) 'रक्ष्' धातु लोट् लकार ।
(२) 'क्रीड्' धातु लट् लकार ।
(३) 'स्था' धातु लृट् लकार ।

D. 'पितृ' एवं 'वनम्' शब्द को सभी विभक्तियों में लिखो ।

E. निम्नलिखित अव्यय एवं संख्या की पहचानकर वाक्य में प्रयोग कीजिए (कोई चार)।

- (१) ततः (२) मन्दः (३) ननु
(४) त्रीणि (५) एकादश ।

4. Answer any Five of the following : 10

A. औष्ठ्य स्थान से बोले जाने वाले स्वर व व्यंजन वर्ण कौन से हैं ?

B. माहेश्वर सूत्र लिखिए ।

C. 'अव्यय' शब्द की परिभाषा लिखें ।

D. भाषा की परिभाषा लिखिए ।

E. 'अक्' व 'इङ्' प्रत्याहार में कौन-कौन से वर्ण होते हैं ?

F. सन्धि कितने प्रकार की होती है ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

English

Date: 01-12-2015
Tuesday

Time: 09:30 A.M. to 11:30 A.M.
Marks: 50

- Instructions: 1. Every question is compulsory.
2. Every question bears the marks written on the right side.

1. Choose the correct verb form from those given in brackets. 5
- A. He the Principal yesterday. (meet, has met, met)
B. I a story book when some body knocked at the door. (is reading, was reading, has been reading)
C. She a hardworking girl. (am, has, is)
D. What doing here ? (have you been, are you being, am you)
E. She in bank. (work, works, working)
2. Change following active sentences to passive sentences. 5
- A. She enjoys her work.
B. She completed her project.
C. He cleans his cupboard every day.
D. Meena sings songs sweetly.
E. Rajiv gave his mobile to friend.
3. Choose the correct modal verb from those given in bracket. 5
- A. They write answers neatly. (must, has to, could)
B. She inform teacher about this. (would, should, will)
C. He to appear for test at the end of semester. (need, has, will)
D. Rajiv come late today. (may, might, would)
E. Who do this work ? (could, would, might)
4. Fill in the blanks with correct forms of the verb given in bracket. 5
- A. She can alone this. (do, doing, done)
B. He was to do it in time. (tell, telling, told)
C. My mother will be breakfast. (prepared, preparing, prepare)
D. They will be the meeting. (attend, attending, attended)
E. Rajiv is to leave for Mumbai tonight. (going, go, gone)
5. A. Find out the synonym for the underlined word from the options given, write only answer option. 4
1. He is likely candidate to win the contest.
(a) popular (b) likeable (c) probable (d) usual
2. Canada is a fascinating country.
(a) large (b) charming (c) foreign (d) communist
3. I would not doubt his integrity for one moment.
(a) unity (b) honesty (c) faith (d) courage
4. Our army is invincible.
(a) Strong (b) unconquerable (c) powerful (d) excellent
- B. Find out the antonym for the word from the options given. 4
1. Reckless.
(a) wild (b) considerable (c) casual (d) cautious
2. Indigenous.
(a) strange (b) native (c) unlawful (d) alien
3. Concrete.
(a) imperfect (b) intact (c) incorrect (d) abstract
4. Enthusiasm.
(a) zeal (b) excitement (c) happy (d) apathy

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Chemistry (Inorganic)

Date: 02-12-2015
Wednesday

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 on the right side.

SECTION-A

1. Write a brief note on modern periodic table. 10
2. Answer any **one** out of two questions. 10
 - A. Explain limit test of heavy metal in detail.
 - B. Explain Volhard method of precipitation titration.
3. Answer any **Four** out of five questions : 20
 - A. Discuss different methods of expressing concentration.
 - B. Write a note on acidimetry.
 - C. What is iodometric titration ? Explain with suitable example.
 - D. Describe Mohr's method in detail.
 - E. Explain Back titration with example.
4. Answer any **Five** out of six questions : 10
 - A. Define normality and weight percent.
 - B. Write importance of limit tests.
 - C. How to prepare 0.1 N. KMnO_4 solution.
 - D. Write uses of buffer solution.
 - E. What is metal ion indicator ?
 - F. What are used for limit test of iron ?

SECTION-B

5. What is gravimetric analysis ? Explain different steps of it. 10
6. Write any **one** out of two questions : 10
 - A. Write assay and uses of ammonium chloride.
 - B. Write criteria and mechanism of anti oxidant.
7. Answer any **Four** out of questions : 20
 - A. What is limitation of gravimetric analysis.
 - B. Give occurrence, properties and uses of mercury.
 - C. Give assay of borax.
 - D. Write a note on hypophosphory acid as an antioxidant.
 - E. How does nitrogen act as an antioxidant ?
8. Answer any **Five** of six questions : 10
 - A. What is anti oxidant ?
 - B. Give medicinal uses of iron.
 - C. Write ignition step of gravimetric analysis.
 - D. How will you dry the precipitate in gravimetric analysis ?
 - E. Write structure of sodium bisulphite and sodium thiosulphate.
 - F. Give any two uses of borax.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Chemistry (Organic)

Date: 03-12-2015

Thursday

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 on the right side.

SECTION-A

1. Define thiophene. Give preparation and properties of thiophene. 10
2. Answer any **one** out of two questions. 10
 - A. Draw the structure of given compound. (any five)
(1) Catechol (2) 1,2 dihydroxy ethane (3) Toluene (4) 2,2,3 triiodo pentanal (5) Succinic acid (6) Butene.
 - B. Write a short note on V.B. theory and its limitations.
3. Answer any **Four** out of five questions : 20
 - A. Difference between SN_1 and SN_2 .
 - B. Write a note on geometric isomerism.
 - C. Narrate stereo specific and stereo selective reaction.
 - D. Define thioalcohol. Give at least two methods of preparation of thioalcohol.
 - E. Explain the dipole moment.
4. Answer any **Five** out of six questions : 10
 - A. Define atomic orbital.
 - B. Define organic chemistry.
 - C. What is racemic mixture ?
 - D. Define stereo specific reactions.
 - E. Uses of thioether.
 - F. What is spin quantum number ?

SECTION-B

5. Define Hydrogen bond. Describe the hydrogen bonding with its effects. 10
6. Write any **one** out of two questions : 10
 - A. Write preparation, properties and uses of aromatic acid.
 - B. What is Nucleophilic substitution reaction ? Give any one mechanism.
7. Answer any **Four** out of questions : 20
 - A. Write a note on carbanion ion.
 - B. Explain SN_1 reaction.
 - C. Give properties and uses of alkyne.
 - D. Define carboxylic acid. Write its uses.
 - E. Write in brief benzyne mechanism.
8. Answer any **Five** of six questions : 10
 - A. Write friedel-craft acylation reaction.
 - B. Define carbonium ion or cation.
 - C. Why alkene is known as olefine ?
 - D. Give uses of alkene.
 - E. Give uses of Ketone.
 - F. Draw the structure of cetonaldehyde and cinnamaldehyde.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 04-12-2015
Friday

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 on the right side.

SECTION-A

1. Write the Basic Principles of Aushadha Nirmana in detail. 10
2. Answer any one out of two questions. 10
 - A. Describe Mana Paribhasha.
 - B. Describe Saviryata Avadhi.
3. Answer any **Four** out of five questions : 20
 - A. Preservation of Raw Material.
 - B. Kshirapaka Kalpana.
 - C. Kalka Kalpana.
 - D. Ushnodaka.
 - E. Laksha Rasa.
4. Answer any **Five** out of six questions : 10
 - A. Write the dose of Swarasa Kalpana.
 - B. Describe the definition of Bhaishajya Kalpana.
 - C. Write ingredients of Shadang Paniya.
 - D. Describe Mantha Kalpana in short.
 - E. Write the preparation method of Churnodaka.
 - F. Write the definition of Phanta Kalpana.

SECTION-B

5. Describe Rasashala from Modern aspect. 10
6. Write any **one** out of two questions : 10
 - A. Write the history of Rasashastra.
 - B. Write Dosha and Samanya Shodhana of Parada.
7. Answer any **Four** out of questions : 20
 - A. Damaru Yantra.
 - B. Valuka Yantra
 - C. Gaja Puta.
 - D. Bhavana.
 - E. Sandhi Bandhana.
8. Answer any **Five** of six questions : 10
 - A. Write the names of Uparasa Dravyas.
 - B. Mention any one classical text of Rasashastra and its author.
 - C. Write Vajra Musha.
 - D. Define Kajjali.
 - E. Write the importance of Puta in Rasashastra.
 - F. Describe Shankha Shodhana.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Sharira (Anatomy & Physiology)

Date: 05-12-2015
Saturday

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 on the right side.

SECTION-A

1. Write definition of Sharira and explain Shadanga Sharira with Pratyanga in detail. 10
2. Answer any one out of two questions. 10
 - A. Describe the component structure of the digestive system and write about small intestine in detail with figure.
 - B. Write the definition of Garbha and explain the factors responsible for the development of the Garbha.
3. Write a short note on any **Four** of the following : 20
 - A. Describe characteristic features of Shuddha Shukra and write the structure of sperm.
 - B. Describe liver in detail with figure.
 - C. Describe kidney in detail with figure.
 - D. Describe skin according to Ayurveda and modern science.
 - E. Describe structure of respiratory system in brief.
4. Answer any **Five** of the following : 10
 - A. Write the relationship of Mahabhuta with Gyanendriya in brief.
 - B. Write the location of the heart.
 - C. Write about the pulmonary veins.
 - D. Write about the divisions of the urethra.
 - E. Write in brief about Dauhradini.
 - F. Write the names of arteries and veins of the nasal septum.

SECTION-B

5. Explain - "Dosha, Dhatu Mala Mulam Hi Shariram". 10
6. Answer any one out of two questions. 10
 - A. What is Prakriti ? Write its classification in detail.
 - B. Describe the composition of blood and write in detail about WBC with figure.
7. Write a short note on any **Four** of the following : 20
 - A. Write the functions of the liver.
 - B. Describe the Pachakagni in detail.
 - C. Describe the functions of the heart and write about blood pressure.
 - D. Explain the Sanchya Prakopa and Prashamana of Tridosha in reference with to different seasons.
 - E. Write the Guna, Karma, Sthana and types of Pitta Dosha.
8. Answer any **Five** of the following : 10
 - A. Write the Upadhatus and Mala of Asthidhatu.
 - B. Write the quantity of Para and Aparaj Oja.
 - C. Enlist Dhatvagnis.
 - D. Enlist parts of male urethra.
 - E. How many pulmonary veins are there ? Which are they ?
 - F. Enlist organs of male reproductive system.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Fundamentals of Ayurveda and Swasthavritta

Date: 07-12-2015
Monday

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 on the right side.

SECTION-A

1. Define Padartha and describe Samanya and Vishesha. 10
2. Answer any one out of two questions. 10
 - A. Describe Yukti Pramana in detail.
 - B. Enlist Padartha and describe about Samvaya Padartha.
3. Answer any **Four** out of five questions : 20
 - A. Write a short note on Karma.
 - B. Classify Dravya.
 - C. Describe Paraadiguna in brief.
 - D. Write a short note on Pruthvi Mahabhuta.
 - E. Describe characteristic features of Aapt.
4. Answer any **Five** out of six questions : 10
 - A. Enlit texts of Laghutrayi.
 - B. Write aboutt Guru Guna.
 - C. Write the effects of Ushna Guna on body.
 - D. Enlist Tanmatra.
 - E. Enlist Atmaj Guna.
 - F. Write introduction of Sharangadhara Samhita.

SECTION-B

5. Write about Swastha, Swasthya and Swasthavritta in brief. 10
6. Write any **one** out of two questions : 10
 - A. Is Ritu Charya is relevance in Pharmaceutical Science ? Explain.
 - B. Write an essay on Protein.
7. Answer any **Four** out of questions : 20
 - A. Write about Ratricharya in brief.
 - B. Write about "Vegavarodha Janya Vyadhi".
 - C. How can the occupational health hazards be prevented ? Explain.
 - D. What is the meaning of NRHM ? Explain its aims.
 - E. What is STD ? Write about its control programme.
8. Answer any **Five** of six questions : 10
 - A. What is the meaning of 'Hansodaka' ?
 - B. Enlist the functions of Carbohydrates.
 - C. Enlist the source of Carbohydrates.
 - D. Write in brief about National programme to control T.B.
 - E. Write about RCH.
 - F. Give the full form of NVBUCP.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First 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 on the right side.

SECTION-A

1. Write in detail on Posology. 10
2. Answer any one out of two questions. 10
 - A. Explain the term prescription and its various parts.
 - B. Write in detail on care required in dispensing procedures.
3. Write a short note on any **Four** of the following : 20
 - A. Labelling of Malhara and Tablets.
 - B. Functions of Retailer and wholesaler.
 - C. Explain the role of Pharmacist in community health care.
 - D. Explain the procedures adopted for dispensing of Churnas and Vati.
 - E. What do you mean by Good Hygienic condition ?
4. Answer any **Five** of the following : 10
 - A. What is Antagonism ?
 - B. What is the meaning of Patient Counselling ?
 - C. What should you write on the label of Cream ?
 - D. Give the dispensing procedures for Basti.
 - E. Define the term Medical Records.
 - F. What is the importance of date in prescription ?

SECTION-B

5. Describe the concept of sterilization in detail. 10
6. Write a short note on any **Four** of the following : 10
 - A. What are the functions of Hospital and Hospital Pharmacy.
 - B. Explain in brief about drug information bulletin.
7. Write a short note on any **Four** of the following : 20
 - A. Describe the processing of Tinctures.
 - B. Describe about Drug records and reports.
 - C. Classification of Hospital.
 - D. Describe unit dose drug distribution system.
 - E. Advantages and disadvantages of Tablets.
8. Answer any **Five** of the following : 10
 - A. What is the meaning of surgical dressings.
 - B. Various size number used for Capsules.
 - C. What is Syrup ?
 - D. Advantages of Capsules.
 - E. Define classification of hospitals on the basis of bed size.
 - F. Give two names of sterilization equipments.