

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

Sanskrit

Date: 18-04-2016
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 है ? सविस्तार समझाईए । 10
2. "जरद्वगवगीध" 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) हिम + आलय | (२) हेम् + अन्त | (३) तथा + एव |
| (४) महा + ऋषि | (५) हरे + अव | (६) नदी + अत्र । |

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

- | | | |
|----------|-------------|-------|
| (१) ततः | (२) शीघ्रम् | (३) च |
| (४) एकम् | (५) नव । | |

C. निम्नलिखित धातु रूप लिखिए (कोई दो)।

- (१) 'वद्' धातु लोट् लकार ।
- (२) 'पच्' धातु लट् लकार ।
- (३) 'पठ्' धातु लृट् लकार ।

D. 'भानु' एवं 'माला' शब्द को सभी विभक्तियों में लिखो ।

E. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

तृणानिभूमिरुदक वाक्चतुर्थी सुनृता । एतान्यपि सतां गेहे नोच्छिद्यन्ते कदाचनः ॥

4. Answer any Five of the following : 10

- A. कण्ठ्य स्थान से बोले जाने वाले स्वर व व्यंजन वर्ण कौन से है ?
- B. उष्माक्षर वर्ण कितने होते हैं ? नाम लिखें ।
- C. 'अव्यय' शब्द की परिभाषा लिखें ।
- D. आचार्य पाणिनी द्वारा रचित पुस्तक का नाम क्या है ?
- E. 'इक्' व 'यण्' प्रत्याहार में कौन-कौन से वर्ण होते हैं ?
- F. ह्रस्व स्वर कौन से है ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

English

Date: 19-04-2016
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 in brackets. 5
A. He to class late yesterday. (come, came, comes)
B. My brother cricket since 2010. (is playing, was playing, has been playing)
C. He a smart boy. (is, was, has)
D. They music of movies. (enjoy, enjoys, enjoying)
E. you been working on computer. (has, have, is)
2. Change following active sentences to passive sentences. 5
A. She listens to the radio.
B. He opened the door.
C. My father helps a lot of poor people.
D. A.R. Rehman composed a good song.
E. She delivers a lecture in the college.
3. Choose the correct modal verb from those in bracket. 5
A. Rajiv take rest as he is not feeling well. (has to, should, may)
B. you mind to lend me your pen ? (should, would, could)
C. We reach in time for the test. (should, must, can)
D. He come for the party as it is a holiday. (might, should, could)
E. She to improve her English. (have, need, has)
4. Fill in the blanks with correct forms of the verb given in bracket. 5
A. She meeting the day before yesterday. (attending, attended, attend)
B. They are for the final exam. (prepared, prepare, preparing)
C. I to contact him today morning. (try, tried, trying)
D. She in a school. (teaching, teaches, teach)
E. Parents must of their children. (take on, take care, take up)
5. A. Find out the synonym for the underlined word from the options given, write only answer option. 4
1. He is well known in making dresses.
(a) popular (b) pioneer (c) new (d) great
2. India is front runner exporter of bauxite.
(a) powerful (b) normal (c) leading (d) high
3. If you scold a child very often, you will spoil him/her.
(a) rebuke (b) love (c) meet (d) lecture
4. There is sufficient food in the kitchen.
(a) less (b) plenty of (c) minimum (d) complete
- B. Find out the antonym for the word from the options given. 4
1. Native
(a) along (b) new comer (c) foreigner (d) local
2. Beautiful
(a) dirty (b) ugly (c) nice (d) clean
3. Thin
(a) fat (b) hard (c) light (d) bold
4. Oral
(a) direct (b) verbal (c) official (d) written

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016 (NEW SYLLABUS)

Pharmaceutical Chemistry (Inorganic)

Date: 21-04-2016
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. Explain modern periodic table. How it superior to mendeleeff's periodic table. 10
2. Answer any one out of two questions. 10
 - A. Limit test for Iron.
 - B. Explain Mohr's method.
3. Answer any **Four** out of five questions : 20
 - A. Write a short note on sources of Impurities.
 - B. Narrate the limit test of arsenic in short.
 - C. Explain complexometric titration.
 - D. Applications of buffer solutions.
 - E. Write a note on iodometric and iodimetric method.
4. Answer any **Five** out of six questions : 10
 - A. Enlist noble gases.
 - B. Which elements are known as alkali metals. ?
 - C. Explain importance of limit test.
 - D. Give types of titration.
 - E. Give two examples of reducing agents.
 - F. Define pH.

SECTION-B

5. What is limitation of gravimetric analysis ? Explain the following terms. 10
(1) Mother liquor, (2) Ash treatment, (3) Digestion, (4) Filter paper.
6. Write any **one** out of two questions : 10
 - A. Give properties and assay of Ammonium Chloride.
 - B. Define antioxidant. Explain hypo phosphorus acid as an antioxidant.
7. Answer any **Four** out of five questions : 20
 - A. Give occurrence, properties and uses of Iron (Fe.).
 - B. Short note on assay of borax.
 - C. Explain Nitrogen as an antioxidant.
 - D. Give occurrence and properties of mercury.
 - E. Write method of preparations of ammonium chloride.
8. Answer any **Five** of six questions : 10
 - A. Draw the structure of Hypophosphrous acid and Sodium thiosulphate.
 - B. Give uses of gold.
 - C. Uses of ammonium chloride.
 - D. What kinds of filter papers are used for filtration in gravimetry.
 - E. Uses of calcium.
 - F. Uses of copper.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

Pharmaceutical Chemistry (Organic)

Date: 22-04-2016
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 preparation, properties and uses of thiophene. 10
2. Answer any **one** out of two questions. 10
 - A. Give IUPAC name of following (any five).

(1) 1-hexane	(2) β -naphthol	(3) resorcinol
(4) TNT	(5) Phenol	(6) Benzenesulfonic acid.
 - B. Short on V.B. theory.
3. Write a short note on any **Four** of the following : 20
 - A. Difference between Pi(π) and Sigma(Σ)
 - B. Give methods of preparation of racemic mixtures.
 - C. Explain E-Z nomenclature.
 - D. Write electromeric effect.
 - E. Explain resonance energy.
4. Answer any **Five** of the following : 10
 - A. Define stereochemistry.
 - B. Define thio compounds and its type.
 - C. Write inductive effect.
 - D. Define acid and base.
 - E. Uses of alcohol.
 - F. Draw structure of d-orbital.

SECTION-B

5. Define nucleophilic substitution reaction and explain SN₂ reaction. 10
6. Answer any **one** out of two questions. 10
 - A. Give types of reaction.
 - B. Explain resonance in brief.
7. Write a short note on any **Four** of the following : 20
 - A. Method of preparation and uses of aromatic acid.
 - B. Carbonium ion.
 - C. Properties and uses of Ketone.
 - D. Diel's alder reaction.
 - E. Explain benzyle mechanism.
8. Answer any **Five** of the following : 10
 - A. Give structure of crotonaldehyde and cinnamaldehyde.
 - B. Give energy profile diagram of SN₁ reaction.
 - C. Aromaticity means ?
 - D. Draw the structure of pentane and bromobenzene.
 - E. Uses of aldehyde.
 - F. Why alkene is known as olefin ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 23-04-2016
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 the collection method of Raw Material. -10
2. Answer any one out of two questions. 10
 - A. Write Swarasa Kalpana.
 - B. Write the definition and importance of Saviryata Avadhi.
3. Answer any **Four** out of five questions : 20
 - A. Hima Kalpana.
 - B. Aushadha Siddha Paniya.
 - C. Laksha Rasa.
 - D. Rules for collection of fresh and dry drug for Aushadha Nirmana.
 - E. Kharjuradi Mantha.
4. Answer any **Five** out of six questions : 10
 - A. Write the ingredients with their proportions for Arjuna Kshirapaka preparation.
 - B. Give four examples of Kwatha Kalpana.
 - C. Write metric measurement for 1 Pala and 1 Karsha.
 - D. Give the definition of Mana.
 - E. Write the preparation method for Tandulodaka.
 - F. Write the definition of Kalka.

SECTION-B

5. Describe Nirvapa and Dhalana terminology along with their examples. 10
6. Write any **one** out of two questions : 10
 - A. Write the importance of Puta and describe Gaja Puta.
 - B. Write the history of Rasashastra in brief.
7. Answer any **Four** out of questions : 20
 - A. Samanya Shodhana of Parada.
 - B. Tiryaka Patana Yantra.
 - C. Musha.
 - D. Rasashala.
 - E. Maharasa.
8. Answer any **Five** of six questions : 10
 - A. Give the names of Parada Gati.
 - B. Describe Hartal Shodhana.
 - C. Write importance of Sandhi Bandhana.
 - D. Write the names of Uparasa dravyas.
 - E. Describe Swedana Yantra.
 - F. Write english name and chemical formula of Kasisa.

GUJARAT AYURVED UNIVERSITY; JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

Sharira (Anatomy & Physiology)

Date: 25-04-2016
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. Write in detail about Uterus. 10
2. Answer any one out of two questions. 10
 - A. Enlist the organs of the digestive system and write in detail about stomach.
 - B. Describe the Masanumasika Vriddhi of Garbha.
3. Write a short note on any Four of the following : 20
 - A. Srotasa.
 - B. Ghranendriya.
 - C. Large Intestine.
 - D. Foetal circulation.
 - E. Lungs.
4. Answer any Five of the following : 10
 - A. Enlist the layers of the skin according to Acharya Charaka.
 - B. Define Koshtha.
 - C. Enlist the parts of the small intestine.
 - D. Define Dohhridini.
 - E. Enlist the parts of the pharynx.
 - F. Define Sira.

SECTION-B

5. Write in detail about Prakruti. 10
6. Answer any one out of two questions. 10
 - A. Write in detail about Agni.
 - B. Write in detail about functions of pituitary glands.
7. Write a short note on any Four of the following : 20
 - A. Vyadhikshamatva.
 - B. Khale-Kapota Nyaya.
 - C. Avasthapaka.
 - D. Functions of the nervous system.
 - E. Blood.
8. Answer any Five of the following : 10
 - A. Enlist the Bheda of Vata Dosha.
 - B. Write the Oja-Kshaya Lakshanas.
 - C. Write the seat of Sadhaka Pitta.
 - D. Write the Lakshana of Medodhatu Vriddhi.
 - E. Enlist the Malas.
 - F. Enlist the types of Agni.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

Fundamentals of Ayurveda and Swasthavritta

Date: 26-04-2016
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. Describe the Pratyaksha Pramana in detail. 10
2. Answer any one out of two questions. 10
 - A. Write about Laghutrayee in detail.
 - B. Describe the classification of Dravya in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Classification of Guna.
 - B. Mana.
 - C. Bruhatrayee.
 - D. Yukti Pramna.
 - E. Rasa Ratna Samuchaya.
4. Answer any **Five** of the following : 10
 - A. Write the definition of Karma.
 - B. Write the definition of Samanya.
 - C. Write the definition of Ayu.
 - D. Enlist the Karana Dravya.
 - E. Write the qualities of Pruthvi Mahabhuta.
 - F. Write the qualities of Vayu Mahabhuta.

SECTION-B

5. Describe Dinacharya in detail. 10
6. Answer any one out of two questions. 10
 - A. Write the sources and functions of carbohydrates and fats.
 - B. Write brief introduction of Indian Factories Act along with its importance in pharmaceutical science.
7. Write a short note on any **Four** of the following : 20
 - A. Describe Vasanta Ritucharya.
 - B. Which are Dharaniya Vega ? Describe their importance in maintenance of health.
 - C. Describe the sources, functions and deficiency disorders for vitamin B complex.
 - D. Chemical hazards.
 - E. ESI Act.
8. Answer any **Five** of the following : 10
 - A. Write the definition of Swastha.
 - B. What is meant by Visargakala ?
 - C. Write definition of Swastha.
 - D. Write the symptoms caused by withholding urge of Mutra.
 - E. Write the treatment of withholding urge of Kshudha.
 - F. Write the symptoms caused by withholding urge of Nidra.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 27-04-2016
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 in detail on packaging. 10
2. Answer any one out of two questions. 10
 - A. Write in detail on prescription.
 - B. What is dispensing pharmacy ? Write in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Incompatibilities.
 - B. Care required in storage and packaging.
 - C. Functions of wholesale and retail pharmacy.
 - D. Patient counselling.
 - E. Labelling.
4. Define the term of the following (any **Five**): 10
 - A. Antagonism.
 - B. Synergism.
 - C. Superscription.
 - D. Pharmacovigilance.
 - E. Tablet.
 - F. Basti.

SECTION-B

5. Write in detail on hospital pharmacy. 10
6. Answer any one out of two questions. 10
 - A. Write in detail on processing of tablets.
 - B. Write in detail on processing of capsules.
7. Write a short note on any **Four** of the following : 20
 - A. Sterilization.
 - B. Drug budget.
 - C. Surgical dressing.
 - D. UDDDS.
 - E. Floor's stock drug distribution system.
8. Define the term of the following (any **Five**): 10
 - A. OPD and IPD.
 - B. Hospital.
 - C. Syrup.
 - D. Tablet.
 - E. Capsule.
 - F. Tincture.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : April - 2016 (OLD SYLLABUS)

Pharmaceutical Chemistry (Inorganic)

Date: 21-04-2016
Thursday

Time: 09:30 A.M. to 12:30 P.M.
Marks: 100

- Instructions : 1. Every question is compulsory.
2. Draw suitable diagrams wherever necessary.

SECTION-A

1. Mention the physical properties with change horizontal variations in the periodic table. 10

2. How will you performed limit tests for chloride ? 10

OR

Define limit tests. How is limit test performed for heavy metals ?

3. Write short note on any **Four** of the following : 20

- A. Define : Molarity, titration errors, buffer solution, back titrations and molality.
- B. Write a note on Fajan's method.
- C. Write a note on complexometric titrations.
- D. Standardize 0.1N HCl by a known standard solution.
- E. What are the conditions of volumetric analysis ?

4. Answer any **Five** of the following : 10

- A. Explain electronic configuration in B, C, F and Ne.
- B. Explain limit test for Fe^{+4} .
- C. What are the uses of buffer solutions in pharmacy ?
- D. Define alkalimetry. Name any two acid base indicators.
- E. Define redox titration. Name indicators used in such titrations.
- F. How will you prepare 500ml of 0.1N NaOH solution.

SECTION-B

5. Explain the preparation assay and uses of ammonium chloride. 10

6. What are the antioxidants ? Explain properties of sodium metabisulphite. 10

OR

Explain gravimetric analysis of Aluminium.

7. Write short note on any **Four** of the following : 20

- A. Explain occurrence and properties of gold and mercury.
- B. Explain properties and uses of borax.
- C. Explain the use of sodium thiosulphate as antioxidant.
- D. Explain ignition and drying of precipitate in gravimetry.
- E. What are the properties and uses of calcium and sulphur ?

8. Answer any **Five** of the following : 10

- A. What are the sources of Fe and Pb ?
- B. How is nitrogen useful as antioxidant ?
- C. Explain calculation of amount of Fe in gravimetry.
- D. Mention medicinal use of Cu and Na.
- E. What are the limitations of gravimetric analysis ?
- F. Mention two criteria for a substance to act as antioxidant.