

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Sanskrit

Date: 14-12-2017
Thursday

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

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

1. विभक्ति कितने प्रकार की होती है ? किन्हीं दो विभक्ति को उदाहरण सहित स्पष्ट 10
कीजिए ।
2. 'फलम्' तथा 'लता' शब्द का सभी विभक्तियों में रूप लिखो । 10

OR

“जरद्वगवगीद्ध” कथा को अपने शब्दों में लिखकर बोध लिखिए ।

3. Answer any **Four** of the following : 20
 - A. सन्धि कीजिए (कोई चार)।
(१) मधु + अरि (२) तस्य + औदार्यम् (३) चित् + आनन्द
(४) मत + टिका (५) महा + ऋषि (६) भृ + आकृति ।
 - B. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।
अयं निजः परो वेति गणना लघु चेतसाम् ।
उदार चरितरनां तु वसुधैव कुटुम्बकम् ।
 - C. निम्नलिखित नाम रूपों की पहचान दीजिए (कोई दो)।
(१) गुरवे (२) अस्मात् (३) सर्वे (४) रामेण ।
 - D. आयुर्वेद एवं संस्कृत का समन्वय कीजिए ।
 - E. 'राम' अथवा 'हरि' शब्द को सभी विभक्तियों में लिखो ।

4. Answer any **Five** of the following : 10
 - A. व्यंजन के प्रकार स्पष्ट कीजिए ।
 - B. ताः अथवा अस्माकम् शब्द का वाक्य प्रयोग कीजिए ।
 - C. हितोपदेश के रचयिता का नाम लिखें ।
 - D. दीर्घ स्वर कौन-कौन से है ?
 - E. अष्टाध्यायि में कितने अध्याय है ?
 - F. तालव्य स्थान से बोले जाने वाले स्वर व व्यंजन वर्ण कौन कौन से है ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

English

Date: 15-12-2017
Friday

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. She often shopping on the weekend. (go, goes, going, to)
B. My sister as a waitress. (work, working, works, is work)
C. She living here for 2 years (has, have been, has been, are)
D. They on the project at the moment. (is working, working, are working, be working)
E. I never meet anymore. (see, seeing, seen, saw)
2. Change following active sentences to passive sentences. 5
- A. He teaches English.
B. The child is eating bananas.
C. He was writing a book.
D. He wore a blue suit.
E. I sent the report yesterday.
3. Choose the correct model verb from those in bracket. 5
- A. It since last night. (is raining, rains, rain)
B. The earth round the sun. (move, moves, moved)
C. I him only one letter up to now. (sent, have sent, send)
D. She Rahim at the zoo. (saw, have seen, had seen)
E. He a mill in this town. (has, have, is having)
4. Fill in the blanks with correct forms of the verb given in bracket. 5
- A. I him only one letter up till now. (sent, have sent, send)
B. She in a school. (teaching, teaches, teach)
C. We only the rules. (must, shall, would)
D. They are for the final exam. (prepared, prepare, preparing)
E. Do you still to the tennis club. (belong, belonging, are belong)
5. A. Find out the synonym for the underlined word from the options given, write only answer option. 4
1. He has concealed the truth. (hidden, revealed, justified)
2. The commission will probe in to the matter. (inquire, search, tap)
3. He is an introvert person. (shy, extrovert, forward)
4. There cannot be any amendments further to this matter. (changes, flexible, ratifications)
- 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. Thin (a) fat (b) hard (c) light (d) bold
3. Oral (a) Ducts (b) verbal (c) official (d) written
4. Beautiful (a) dirty (b) ugly (c) nice (d) clean

[P.T.O.]

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Pharmaceutical Chemistry (Inorganic)

Date: 16-12-2017
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. What is periodic law ? Write down salient features of mendeleeff's periodic table. 10
2. Answer any one out of two questions. 10
 - A. Limit test for heavy metal.
 - B. Define Buffer solution and explain in detail Henderson-Hasselbach equation for buffer.
3. Answer any **Four** out of five questions : 20
 - A. Preparation of standard acid and their standardization with example of HCl.
 - B. Explain Redox titration.
 - C. Explain valency of elements.
 - D. Write short note on Electro negativity.
 - E. Explain preparation of standard alkali and their standardization with example of NaOH.
4. Answer any **Five** out of six questions : 10
 - A. Define Normality.
 - B. Give role of bead acetate paper in Gutzeit's test.
 - C. Define limit test.
 - D. Define Iodometry.
 - E. Write various acid base examples.
 - F. Write role of Buffer Solution in Pharmacy.

SECTION-B

5. Give structure, assay and chemical reaction of Ammonium Chloride.. 10
6. Write any **one** out of two questions : 10
 - A. Define antioxidant and give its mechanism.
 - B. Explain precipitation, filtration, washing of precipitate in gravimetric analysis.
7. Answer any **Four** out of five questions : 20
 - A. Give occurrence, properties and uses of mercury.
 - B. Write sodium nitrate as an antioxidant.
 - C. How are ferrous and Aluminium precipitate as in gravimetry ?
 - D. Give occurrence, properties and uses of copper.
 - E. Write properties and uses of borax.
8. Answer any **Five** of six questions : 10
 - A. Write uses of ammonium chloride.
 - B. Give synonyms of precipitated chalk and green vitriol.
 - C. Define law of mass action.
 - D. Difference between gravimetric and volumetric analysis
 - E. Advantage of gravimetric analysis.
 - F. Draw structure of Hypophosphorous acid.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Pharmaceutical Chemistry (Organic)

Date: 18-12-2017
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. Classify Thio compounds and write a note on Thioether. 10
2. Give methods of preparation of Racemic mixtures and write short note on conformation. 10

OR

Draw structure of (a) Picric acid (b) Butane (c) Phenol (d) 1-Hexane, (e) Glycerol.

3. Write short notes on any **Four** of the following : 20
 - A. Inductive effect.
 - B. V.B. Theory.
 - C. Optical activity.
 - D. Cis- and Trans- isomerism.
 - E. Dipole moment.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Enantiomers.
 - B. Define Symmetric and Asymmetric.
 - C. Uses of Thiophene.
 - D. Define Thioalcohol.
 - E. IUPAC name of $\text{CH}_3\text{-CN}$
 - F. IUPAC name of HCO-NH_2

SECTION-B

5. Explain various types of Resonance. Describe Bond length. 10
6. What is Aromaticity ? Enlist Aromatic nucleophilic substitution reaction with example. 10

OR

Detailed note on preparation, properties and uses of Aromatic acid.

7. Write short notes on any **Four** of the following : 20
 - A. Benzyne mechanism.
 - B. Ketone and its preparation and uses.
 - C. Carboxylic acid and its uses.
 - D. Three steps of free radical reaction.
 - E. Carbonion ion.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Test for Aromatic and Aliphatic compounds.
 - B. Structure of Cotonaldehyde.
 - C. Pyrolysis.
 - D. Uses of Alkene and Alkyne.
 - E. SN reaction.
 - F. Resonance energy.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 19-12-2017
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 Kshirapaka Kalpana. 10
2. Answer any one out of two questions. 10
 - A. Write Aushadha Grahana Niyama in detail.
 - B. Write Maana Paribhasha in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Churnodaka.
 - B. Shadanga Paniya.
 - C. Saviryata Avadhi.
 - D. Vasa Putapaka.
 - E. Pramathya.
4. Answer any **Five** of the following : 10
 - A. Write definition of Bhaishajya Kalpana.
 - B. Write Kalka Pariksha.
 - C. Describe preparation method of Tandulodaka.
 - D. Write the preparation method of Phant Kalpana.
 - E. Give the synonyms of Karsha.
 - F. Give four examples of Swarasa Kalpana.

SECTION-B

5. Write brief history of Rasashastra. 10
6. Answer any one out of two questions. 10
 - A. Describe Rasashala from modern aspect.
 - B. Describe Rasashala from ancient aspect.
7. Write a short note on any **Four** of the following : 20
 - A. Samanya Shodhana of Parada.
 - B. Bhavana.
 - C. Vajra Musha.
 - D. Damaru Yantra.
 - E. Kajjali.
8. Answer any **Five** of the following : 10
 - A. Write the definition of Rasa.
 - B. Write Grahya Lakshana of Parada.
 - C. Describe importance of Dravaka Gana.
 - D. Write definition of Puta.
 - E. Write the name of Uparasa Dravya.
 - F. Give name of Upavisha Dravya.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Sharira (Anatomy & Physiology)

Date: 20-12-2017
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. Describe the definition, types and numbers of 'Sira' and 'Dhamani' in detail. 10
2. Answer any one out of two questions. 10
 - A. Write general features of tissue and explain muscle tissue in detail.
 - B. Describe the terms "Rutu", "Kshetra", "Ambu" and "Bija" in reference to 'Garbhotpatti'.
3. Answer any **Four** out of five questions : 20
 - A. Describe the lungs in detail with figure.
 - B. Write the importance of knowledge of anatomical terminology and explain Dorsal and Central in detail.
 - C. Write the major structure and branches of the nervous system.
 - D. Describe types of bones according to modern medical science.
 - E. Write the importance of 'Gyanendriya'.
4. Answer any **Five** out of six questions : 10
 - A. Write the definition of Srotasa.
 - B. Write the location of Heart.
 - C. Write the characteristic features of Shuddha Artava.
 - D. Enumerate parts of small intestine.
 - E. Write the location and measurement of trachea.
 - F. Write the parts of uterus.

SECTION-B

5. What is respiration ? Explain $O_2 \leftrightarrow CO_2$ exchange in detail with diagrams. 10
6. Write any **one** out of two questions : 10
 - A. Write the characteristics and functions of 'Mutra' and describe the urine formation in detail with figure.
 - B. Write the types, properties and functions of Ojas and describe the Vyadhikshamatva.
7. Answer any **Four** out of five questions : 20
 - A. Explain the digestion and metabolism of the Protein.
 - B. Name the Hormones of pituitary gland along with their main functions.
 - C. Explain the term 'Fight or Flight' tendency in reference with nervous and endocrine system.
 - D. Write Guṇa, Karma, Sthana and types of 'Vata Dosha'.
 - E. Explain the importance of 'Mamsa Dhatu' and its functions.
8. Answer any **Five** of six questions : 10
 - A. Write in brief about 'Nisthapak'.
 - B. Explain 'Kshir-Dadhi Nyaya'.
 - C. Write about 'Ashraya – Ashrayi Bhava'.
 - D. Write about 'Tarpak Kapha'.
 - E. Write about 'Apana Vayu'.
 - F. Name the hormones of the Supra renal gland.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Fundamentals of Ayurveda and Swasthavritta

Date: 21-12-2017
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. What is Pramana ? Write Aptopadesha Pramana in detail. 10
2. Answer any one out of two questions. 10
 - A. Explain Brihatrayi and its importance in development of pharmaceutical science.
 - B. Describe Ashtanga Ayurveda.
3. Write a short note on any **Four** of the following : 20
 - A. Utility of Kaala (काल) and Disha in Ayurveda.
 - B. Write Mana as a Karana Dravya.
 - C. Write difference between Karana Dravya and Kaarya Dravya.
 - D. Define Chetana and Achetana.
 - E. Write about Samvaya.
4. Answer any **Five** of the following : 10
 - A. What is meant by Padartha ?
 - B. Define Dravya.
 - C. Define Dig (Disha).
 - D. Define Atma.
 - E. Enlist PanchaMahabhoota.
 - F. Write the texts included in Laghutrayi.

SECTION-B

5. Explain Dinacharya and its relevance in pharmaceutical science. 10
6. Answer any one out of two questions. 10
 - A. Describe Adharaniya Vega and its importance in general health and living.
 - B. What is Factory Act ? Explain it.
7. Write a short note on any **Four** of the following : 20
 - A. Revised National Tuberculosis Control Programme.
 - B. Sources and functions of Fat.
 - C. Vasanta Ritucharya.
 - D. Swasthavritta.
 - E. Ratricharya.
8. Answer any **Five** of the following : 10
 - A. Enlist any four National Health Programme.
 - B. What is Viruddha Ahara ?
 - C. Define Sadvritta.
 - D. What is meant by STD ?
 - E. What is meant by AIDS ?
 - F. What is meant by NRHM ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : December - 2017

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 22-12-2017
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 in detail on dispensing pharmacy. 10
2. Answer any one out of two questions. 10
 - A. What is posology ? Explain in detail.
 - B. What is incompatibility ? Explain it in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Maintenance of drug store.
 - B. Patient counselling.
 - C. Labelling.
 - D. Packaging.
 - E. Difference between Asava- Arishta.
4. Define the term of the following (any **Five**): 10
 - A. Pharmacovigilance.
 - B. Community health care.
 - C. Retailer.
 - D. Wholesaler.
 - E. Drug store.
 - F. Basti.

SECTION-B

5. Write in detail on hospital pharmacy. 10
6. Answer any one out of two questions. 10
 - A. Write on Drug distribution system in hospital.
 - B. What is sterilization ? Explain it in detail.
7. Write a short note on any **Four** of the following : 20
 - A. Surgical dressing.
 - B. Drug budget.
 - C. Advantages of tablets.
 - D. Processing of tincture.
 - E. Functions of hospitals.
8. Answer any **Five** of the following : 10
 - A. Define the term OPD and IPD.
 - B. Types of tablets.
 - C. Types of capsules.
 - D. Define syrups.
 - E. Define the term drug record.
 - F. Disadvantages of capsule.
