

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Sanskrit

Date: 17-05-2018
Thursday

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

Instructions: Every question is compulsory.

1. सभी विभक्तियों के नाम देकर किसी एक विभक्ति का सविस्तर वर्णन करें । 10
2. “लुब्धविप्रवृद्धव्याघ्रकथा” में क्या संदेश दिया है ? अपने शब्दोंमें वर्णन करें । 10

OR

2. “जरूदगवगीधकथा” का नया शिर्षक देकर बोध अपने शब्दों में लिखे ।
3. Answer any **Four** of the following : 20

A. संधि कीजिए ।

१. दया+अर्णवः २. प्रति+उपकार ३. देवर्षिः ४. महेशः ५. तथैव ।

B. निम्नलिखित शब्दों का अर्थ बताते हुए वाक्य प्रयोग कीजिए (कोई चार) ।

१. तव २. च ३. षट् ४. शीघ्रम् ५. अहम् ।

C. निम्नलिखित रूपों की पहचान दीजिए (कोई दो) ।

१. रक्ष् - भविष्यकाल २. गम्- वर्तमानकाल ३. हस् - भूतकाल ।

D. कपि एवं कनक शब्द का सभी विभक्तियों में रूप लिखें ।

E. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

अयं निजः परो वेति गणना लघुचेतसाम् ।
उदारचरितानां तु वसुधैव कुटुम्बकम् ॥

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

A. अष्टाध्यायि के रचयिता कौन है ?

B. ‘पठ्’ धातु का भविष्यकाल में प्रयोग करें ।

C. सर्वनाम शब्द की परिभाषा लिखें ।

D. माहेश्वरसूत्र लिखें ।

E. तृतिया विभक्ति का नाम लिखें ।

F. ‘श्री गणेशाय नमः’ - वाक्य में कौन सि विभक्ति है ।

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

English

Date: 18-05-2018
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 given in brackets. 5
A. My brother the Chief Minister yesterday. (see, have seen, saw)
B. She him one letter up to now. (sent, have sent, has sent)
C. It started to rain while we cricket. (are playing, were playing, had playing)
D. Can I have some milk before I to bed (go, am going, shall go)
E. He here for the last five years. (is being living, has been living, is living).
2. Change following active sentences to passive sentences. 5
A. I wrote a letter to my father.
B. She cleans the house daily.
C. We enjoyed the party.
D. She informed the faculty.
E. He reads newspaper regularly.
3. Choose the correct modal verb from those given in brackets. 5
A. I go now as I have an appointment with doctor. (should, will, must)
B. You drink at least 8 glass of water per day. (can, must, should)
C. I not complete work yesterday night, so I woke up early today.
(had, need, could)
D. They work hard as exams are near. (have to, had to, has to)
E. She to deposit fee as it is the last day to submit. (have, must, should)
4. Fill in the blanks with correct verb form those given in brackets. 5
A. No one can stop him from his work. (do, doing, done)
B. He was surprised at his mother there. (finding, find, found)
C. By early, they avoided missing the train. (arrive, arrived, arriving)
D. The thief was caught in to the house (broken, break, breaking)
E. He desired to to the party (go, going, gone)
5. A. Find out the **synonym** for the underlined word from the options given, write only answer option. 4
1. There is abundant supply of water in the hostel.
(a) considerable (b) plentiful (c) adequate (d) sufficient
2. All his attempts to win the favour of his boss proved in fructuous.
(a) meaningless (b) unnecessary (c) redundant (d) fruitless
3. He treats with disdain anyone who goes to him for help.
(a) contempt (b) disgust (c) insolence (d) displeasure
4. I wonder if this intervention in the dispute will be of any help.
(a) interception (b) interruption (c) meditation (d) meddling
5. B. Find out the **antonym** for the word from the options given, write only answer option. 4
1. Merciless
(a) obscure (b) injurious (c) urgently (d) compassionate
2. Smooth
(a) hard (b) rough (c) awkward (d) plunge
3. Rear
(a) forward (b) forehead (c) foreground (d) front
4. Native
(a) foreigner (b) newcomer (c) stranger (d) alone

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Pharmaceutical Chemistry (Inorganic)

Date: 19-05-2018
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. Explain limit test for Chloride and Arsenic. 10
2. Answer any **one** out of two questions. 10
 - A. Write detailed note on Iodometric and Iodimetric titration with examples.
 - B. Explain modern periodic table. Why Modern periodic table superior to Mendeleef's periodic table ?
3. Write a short note on any **Four** of the following : 20
 - A. Henderson-Hasselbalch equation.
 - B. Bond length.
 - C. Limit test for heavy metals.
 - D. Mechanism of actions of Buffer.
 - E. Impurities and its sources.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Acid base titration.
 - B. Uses of Buffer.
 - C. Molality and Molarity.
 - D. Nobel gases.
 - E. Precipitation titration.
 - F. Normality.

SECTION-B

5. What is gravimetric analysis ? Explain various stapes involved in Gravimetric analysis. 10
6. Answer any **one** out of two questions. 10
 - A. Explain methods of preparation, properties and assay of Borax.
 - B. Explain Sodium thiosulphate and Sodium bisulphite as an antioxidant.
7. Write a short note on any **Four** of the following : 20
 - A. Give chemical name, formula and use of Rochelle salt and Backing soda.
 - B. Occurance, properties and uses of Gold.
 - C. Assay of Ammonium chloride.
 - D. Mechanism of actions and characteristics of antioxidant.
 - E. Limitations of Gravimetric analysis.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Properties of Iron.
 - B. Law of mass action.
 - C. Properties of Mercury.
 - D. Structure of Ammonium chloride.
 - E. Coagulation.
 - F. Green vitriol.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Pharmaceutical Chemistry (Organic)

Date: 21-05-2018
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 thioalcohol. Give preparation and properties of thioalcohol. 10
2. Answer any **one** out of two questions. 10
 - A. IUPAC names of given organic compound. (any five)
(1) HCONH_2 (2) $\text{CH}_3\text{CH}_2\text{COOH}$ (3) CH_3OH (4) $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CN}$
(5) $\text{CH}_3\text{-NH}_2\text{-CH-CH}_2\text{HCO}$ (6) $\text{CH}_3\text{-NO}_2$.
 - B. Short note on the different types of orbitals with suitable diagram.
3. Answer any **Four** out of five questions : 20
 - A. Difference between Pi (π) and sigma (σ)
 - B. Explain centre of symmetry.
 - C. What is recent modification? Write its method of preparation.
 - D. Write method of preparation of thiophene.
 - E. Describe the electrometric effect.
4. Answer any **Five** out of six questions : 10
 - A. Give IUPAC names of given organic compound. (1) $\text{CH}_3\text{-CN}$ (2) H-CHO
 - B. Define acid and base.
 - C. Define oxidation.
 - D. Define stereo chemistry.
 - E. Uses of thioether.
 - F. Define diastereomers.

SECTION-B

5. Write a short note on benzyne mechanism. 10
6. Write any **one** out of two questions : 10
 - A. Define elimination reaction. Write E_2 reaction mechanism in detail.
 - B. Write preparation, properties and uses of aldehyde.
7. Answer any **Four** out of questions : 20
 - A. Write a note on free radical.
 - B. Explain a preparation and uses of ketones.
 - C. Explain the hydrogen bonding.
 - D. Short note on pyrolysis.
 - E. Explain following terms – (1) Michael addition (2) Diels alder reaction.
8. Answer any **Five** of six questions : 10
 - A. Define organic reaction mechanism.
 - B. Define carbonium ion.
 - C. Give uses of alkene.
 - D. Give properties of alkyne.
 - E. Define aromatic compounds.
 - F. Write a test of aromatic and aliphatic compounds.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 22-05-2018
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 Kwatha Kalpana. 10
2. Answer any one out of two questions. 10
 - A. Write Yoga Namakarana in detail.
 - B. Write Aushadha Sevana Kala in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Preservation of raw material.
 - B. Shadanga Paniya.
 - C. Pautava Maana.
 - D. Metric Drava Dravya Maana.
 - E. Kshirapaka.
4. Answer any **Five** of the following : 10
 - A. Write preparation method of Ardraka Swarasa.
 - B. Write examination of Nimba Patra Kalka.
 - C. Write ingredients of Triphala Kwatha.
 - D. Write preparation method of Tandulodaka.
 - E. Write the ratio of Dravya and Drava for Hima Kalpana.
 - F. Write preparation method of Phanta Kalpana.

SECTION-B

5. Describe Rasashala in detail. 10
6. Answer any one out of two questions. 10
 - A. Write a brief note on Marana.
 - B. Write short note on Urdhava and Adhah Patana Yantra.
7. Write a short note on any **Four** of the following : 20
 - A. Shodhana.
 - B. Rasa Tarangini.
 - C. Vrutaka Musha.
 - D. Parada Gati.
 - E. Rasa Ratna Samuchchaya.
8. Answer any **Five** of the following : 10
 - A. Write the names of Sudha Varga Dravya.
 - B. Write the definition of Dhalana.
 - C. Write the importance of Kakarastaka Gana.
 - D. Write the definition of Puta.
 - E. Describe Gaja Puta.
 - F. Write the examination of Kajjali.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Sharira (Anatomy & Physiology)

Date: 23-05-2018
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 the structure of Lungs in detail. 10
2. Answer any one out of two questions. 10
 - A. Write in detail about Srotasa.
 - B. Enlist the Endocrine glands and write about Thyroid gland.
3. Write a short note on any **Four** of the following : 20
 - A. Ashaya.
 - B. Duodenum.
 - C. Artava.
 - D. Types of bones according to Acharya Sushruta.
 - E. Ureter.
4. Answer any **Five** of the following : 10
 - A. Enlist the parts of the Brain.
 - B. Define Dhamani.
 - C. Define Koshthanga.
 - D. Define Srotasa.
 - E. Enlist the Gyanendriya.
 - F. Enlist the Organs of the Urinary System.

SECTION-B

5. Write in detail about Pitta Dosha. 10
6. Answer any one out of two questions. 10
 - A. Write in detail about Pitta Dosha.
 - B. Write in detail about Vyadhikshamatva.
7. Write a short note on any **Four** of the following : 20
 - A. Mamsa Dhatu.
 - B. Importance of Agni in Digestion.
 - C. WBC.
 - D. Kapha Dosha.
 - E. Mala.
8. Answer any **Five** of the following : 10
 - A. Write the name of the hormonal cells of the Pancreas.
 - B. Enlist the Upadhatus.
 - C. Write the functions of Neurons.
 - D. Write the pH value of Blood.
 - E. Write the full form of CSF.
 - F. Write the full form of RBC.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Fundamentals of Ayurveda and Swasthavritta

Date: 24-05-2018
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. Write an essay on Panchamahabhuta. 10
2. Answer any one out of two questions. 10
 - A. Describe Anumana Pramana.
 - B. Enlist books of Laghutrayi and describe the contribution of Sharangadhara Samhita in Pharmaceutical Science.
3. Answer any **Four** out of five questions : 20
 - A. Classify Pratyaksha Pramana according to Ayurveda.
 - B. Explain – ‘विश्व लक्षणाः गुणाः’.
 - C. Describe Samanya.
 - D. Describe in brief about Atma.
 - E. Write a short note on Mana.
4. Answer any **Five** out of six questions : 10
 - A. Enlist books of Brihatrayi.
 - B. Enlist Karma.
 - C. Enlist Six Padartha.
 - D. Define Ayurveda.
 - E. Write in brief about Khara Guna.
 - F. Give brief introduction about Charaka Samhita.

SECTION-B

5. What is the meaning of word ‘Swastha’ ? What is its relevance in Pharmaceutical Science ? 10
6. Write any **one** out of two questions : 10
 - A. Describe the source and functions of Fat in detail.
 - B. Write in detail about relevance of Dinacharya in Pharmaceutical Science.
7. Answer any **Four** out of questions : 20
 - A. Write short note about RCH.
 - B. Write the aims and objectives of Factory Act.
 - C. Write a short note about Adharniya Vega.
 - D. Write a short note about Ritucharya.
 - E. What is Sadavritta ? Explain.
8. Answer any **Five** of six questions : 10
 - A. Enlist the disease due to Mootra Vegadharana.
 - B. Enlist Dharniya Vega.
 - C. Define vector born disease.
 - D. Enlist water soluble vitamins.
 - E. Write the Doshik status in Vasant Ritu.
 - F. Give the full form of NRHM.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2018

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 25-05-2018
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 care required in storage and packaging. 10
2. Answer any one out of two questions. 10
 - A. Write in detail on dispensing pharmacy.
 - B. Write in detail on incompatibilities in prescription.
3. Write a short note on any **Four** of the following : 20
 - A. Posology.
 - B. Prescription and its parts.
 - C. Patient counselling.
 - D. Labelling.
 - E. Dispensing procedures for Dashmula Kwatha.
4. Answer any **Five** of the following : 10
 - A. Define the term wholesale pharmacy.
 - B. Define the term drug store.
 - C. Define the term retail pharmacy.
 - D. Difference between Asava-Arishta.
 - E. What is pharmacovigilance ?
 - F. What is suppositories ?

SECTION-B

5. Write in detail on sterilization. 10
6. Answer any one out of two questions. 10
 - A. Write in detail on drug distribution system in hospital.
 - B. Write the objectives and function of hospital pharmacy.
7. Write a short note on any **Four** of the following : 20
 - A. Processing of tablet.
 - B. Processing of tinctures.
 - C. Surgical dressing.
 - D. Drug budget.
 - E. Drug information services.
8. Answer any **Five** of the following : 10
 - A. Define UDDS.
 - B. Define OPD-IPD.
 - C. What is capsule ?
 - D. Define drug record.
 - E. What is hot air oven ?
 - F. Write the ideal storage condition for syrup.
