

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Sanskrit

Date: 20-05-2019
Monday

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

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

1. विभक्ति सविस्तारपूर्वक समझाईए । 10
2. "रमा" एवं "भानु" शब्द का सभी विभक्तियों में रूप लिखें । 10
- OR**
2. "जरद्वग्वगीधकथा" कथाको अपने शब्दों में लिखकर बोध लिखिए ।
3. Write short notes on any **Four** of the following : 20
 - A. संधि कीजिए ।
 १. मम + इव २. पञ्च + इन्द्रियाणि ३. महा + उत्सवः ४. गंगा + उदकम् ५. हिम + आलय
 - B. निम्नलिखित अव्यय का अर्थ बताते हुए वाक्य प्रयोग कीजिए (कोई चार)
 १. शीघ्रम् २. विना ३. च ४. बहिः ५. ततः
 - C. निम्नलिखित रूपों की पहचान दीजिए (कोई दो)।
 १. नदी २. रामेण ३. रमा
 - D. 'राम' अथवा 'शिशु' शब्द के सभी विभक्तियाँ में रूप लिखें ।
 - E. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

सर्वहिंसानिवृत्ता ये नराः सर्वसहाश्च ये ।
सर्वस्याश्रयभूताश्च ते नराः स्वर्गगामिनः ॥
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. प्रथम दो माहेश्वरसूत्र लिखिए ।
 - B. रामात्, रामस्य शब्दों में कौन सी विभक्ति होती है ?
 - C. 'गम्' धातु का प्रयोग करके दो वाक्य बनाईए ।
 - D. कर्ता किसे कहते हैं ?
 - E. स्वर संधि क्या है ? उदाहरण द्वारा समझाईए ।
 - F. विष्णुशर्मा द्वारा रचित पुस्तक का नाम क्या है ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

English

Date: 21-05-2019
Tuesday

Time: 09:30 A.M. to 11:30 P.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 early yesterday (come, came, coming)
B. He never break fast in the morning. (take, takes, taking)
C. They are on picnic now. (go, goes, going)
D. She will be hard for exam. (work, works, working)
E. Sanjay been preparing for final exam since two months. (have, has, had)
2. Change following active sentences to passive sentences. 5
A. He cuts an apple with knife.
B. Children broke the window yesterday.
C. I distributed all the chocolates to the children.
D. He wrote a nice essay.
E. The Principal called us in the office.
3. Choose the correct modal verb from those in bracket. 5
A. She pass the exam to qualify as a teacher. (have to, has to, should)
B. Shital come late today. (might, would, could)
C. I not complete my work yesterday. (should, could, would)
D. They attend the seminar as it is very informative. (can, could, must)
E. We listening to a speech. (are, is am)
4. Fill in the blanks with correct forms of the verb given in bracket. 5
A. My friend has for two days leave. (applying, applied, apply)
B. He will us on the topic. (guide, guided, guiding)
C. My father will be to Mumbai next year. (transfer, transferred, transferring)
D. College will after the vacation. (resume, resumed, resuming)
E. Sanjay has with his teacher. (discussing, discuss, discussed)
5. A. Find out the synonym for the underlined word from the options given, write only answer option. 4
1. Our journey to Manali was hazardous.
(a) dangerous (b) great (c) boring (d) tiresome
2. The movie was quite horrifying.
(a) testifying (b) terrifying (c) enjoying (d) entertaining
3. I would not doubt on his loyalty.
(a) honesty (b) friendship (c) faithfulness (d) courage.
4. She has a never ending love for music.
(a) insatiable (b) remarkable (c) incessant (d) spiritful
- B. Find out the antonym for the word from the options given. 4
1. Careless
(a) careful (b) negligent (c) cautious (d) steady
2. Reject
(a) allow (b) accept (c) dislike (d) turndown
3. Rapid
(a) near (b) forget (c) fast (d) slow
4. Surplus
(a) more (b) too much (c) deficit (d) insufficient

[P.T.O.]

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Pharmaceutical Chemistry (Inorganic)

Date: 22-05-2019
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 limit test for heavy metals. 10
2. Answer any one out of two questions. 10
 - A. Explain brief history on development of periodic table.
- OR**
- B. Define limit test. Explain limit test for Iron.
3. Write short notes on any **Four** of the following : 20
 - A. Buffer solutions and role of Buffer solutions in pharmacy.
 - B. Acid -Base titrations.
 - C. Ligands and its classification.
 - D. Back titrations.
 - E. Difference between Iodimetry and Iodometry.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define: Titrant and Normality.
 - B. Explain Oxidizing agent with examples.
 - C. Give importance of limit test.
 - D. Comment on: Lead acetate papers used in limit test for Arsenic.
 - E. How to prepare 0.1 N KMnO₄ solution?
 - F. Define Ionization energy.

SECTION-B

5. What is Gravimetric analysis? Explain in detail. 10
6. Answer any one out of two questions. 10
 - A. Give preparation, assay and uses of Borex.
- OR**
- B. Give occurrence, properties and uses of Sulphur.
7. Write short notes on any **Four** of the following : 20
 - A. Antioxidant and its criteria
 - B. Assay of Ammonium chloride.
 - C. Estimation of Aluminium from alum by Gravimetry.
 - D. Occurrence and properties of Mercury.
 - E. Sodium thioulphate as an antioxidant.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write uses of Calcium.
 - B. Draw structure Sodium metabisulphite and Hypophosphorus acid
 - C. Write uses of Ammonium chloride.
 - D. Write uses Mercury.
 - E. Explain limitations of Gravimetry.
 - F. Explain Post-precipitation.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Pharmaceutical Chemistry (Organic)

Date: 23-05-2019
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. Define thioalcohol. Give preparation, chemical properties and uses of thioalcohol. 10
2. Give IUPAC name of following (any five).
ii. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_3$ ii. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-OH}$ iii. $\text{CH}_3\text{-NH-CH}_3$
iv. $\text{CH}_3\text{-CH}_2\text{-Br}$ v. $\text{CH}_3\text{-CO-CH}_3$ vi. $\text{CH}_3\text{-COCl}$

OR

Define molecular orbital. Explain S-S, S-P, P-P molecular orbital.

3. Write short note on any **Four** of the following : 20
- A. Explain elements of symmetry.
B. Explain various applications of inductive effects.
C. Optical activity.
D. Give formation of oxygen molecule-double bond.
E. Explain conformation of ethane.
4. Answer any **Five** of the following : 10
- A. Limitation of V.B. theory.
B. Define stereo chemistry and its classification.
C. Give two examples of α , β carbonyl compounds.
D. Enlist methods of racemic modification.
E. Structure of succinic acid and β -nephthol.
F. Define acid & base according to Lowery-Bronsted theory.

SECTION-B

5. Define organic reaction. Write about bond fission and bond formation. 10
6. Define resonance and resonance energy. Explain effects of resonance. 10

OR

Write α , β unsaturated compound. Give its method of preparation and explain chemical properties.

7. Write short note on any **Four** of the following : 20
- A. Nucleophile.
B. Define free radical. Write about mechanism of free radical.
C. Write about bi-molecular displacement mechanism.
D. Explain benzyne mechanism.
E. Define ketone. Give its method of preparation.
8. Answer any **Five** of the following : 10
- A. Write necessary condition for resonance.
B. Friedal craft reaction.
C. Use of alkane.
D. Aromatization.
E. Distinction between primary, secondary and tertiary alcohol.
F. Draw a structure of pentanal, toluene.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 24-05-2019
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 basic principle for Aushadha Nirmana. 10
2. Answer any one out of two questions. 10
 - A. Describe Kshirapaka in brief.
 - B. Describe Pramathya in brief.
3. Write a short note on any **Four** of the following : 20
 - A. Churnodaka.
 - B. Laksharasa.
 - C. Saviryatavadhi.
 - D. Importance of Bhaishajya Kalpana.
 - E. Mana.
4. Answer any **Five** of the following : 10
 - A. Write the ingredients and use of Triphala Kwatha.
 - B. Write the ingredients and use of Dashamula Kwatha.
 - C. Write the ingredients and use of Arjuna Kshirapaka.
 - D. Write the ingredients and use of Tulasi Swarasa.
 - E. Write the ingredients and use of Sudarshana Phant.
 - F. Write the ingredients and use of Nimba Kalka.

SECTION-B

5. Write Rasashala in brief. 10
6. Answer any one out of two questions. 10
 - A. Write the importance of Marana in Rasashastra.
 - B. Write the history of Rasashastra in brief.
7. Write a short note on any **Four** of the following : 20
 - A. Samanya Shodhana of Parada.
 - B. Musha.
 - C. Gajaputa.
 - D. Rasatarangini.
 - E. Damaru Yantra.
8. Answer any **Five** of the following : 10
 - A. Describe Shodhana process of Gairik.
 - B. Describe Shodhana process of Sphatika.
 - C. Describe Shodhana process of Hingula.
 - D. Describe Shodhana process of Shankha.
 - E. Describe Shodhana process of Tankana.
 - F. Describe Shodhana process of Gandhaka.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Sharira (Anatomy & Physiology)

Date: 25-05-2019
Saturday

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

- Instructions: 1. All questions are compulsory
2. All questions bear the marks written on the right side

SECTION A

1. Define bone and Explain the classification of bone with example as per Modern science 10
2. Answer any one out of two questions 10
 - A. Explain Thyroid gland, its hormones and functions with diagram
 - B. Explain the Ear with diagram
3. Write a Short note on any **four** of the following questions 20
 - A. Shadanga Sharira
 - B. Classification of bones
 - C. External features of human heart
 - D. Corpus callosum
 - E. External features of Pituitary gland
4. Answer any **five** of the following questions 10
 - A. Asthi Samkhya(Number of Asthi) according to Ayurveda
 - B. Define Sharira
 - C. Define Indriya
 - D. Define Koshta
 - E. Name the parts of brain
 - F. Write the measurements of urinary bladder

SECTION B

5. Explain sthana,Guna,Karma,Vruddhi and kshaya laxanas of the Kapha dosha 10
6. Answer any one out of two questions 10
 - A. Explain Adrenal gland, its hormones and functions with diagram
 - B. Explain Immunity
7. Write a Short note on any **four** of the following questions 20
 - A. Name the dhatus and corresponding upadhatu
 - B. Importance of Vata
 - C. Shukra dhatu
 - D. Passive immunity
 - E. Functions of Neuron
8. Answer any **five** of the following questions (In two to three sentences) 10
 - A. Define Mala
 - B. Functions of Apana vayu
 - C. Types of Pitta
 - D. Adhishtana (Location) of Bhrajak Pitta
 - E. Differences between Agni and Pitta
 - F. Normal value of WBC & RBC in body

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Fundamentals of Ayurveda and Swasthavritta

Date: 27-05-2019
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. Defining pramana explain Yukti Pramana. 10
2. Answer any one out of two questions. 10
 - A. Explaining Concept of padartha, Describe Samanya & vishesha.
- OR**
- B. Write an essay on Laghutrayi and their importance in Pharmaceutical science. 20
3. Write short notes on any **Four** of the following : 20
 - A. Ashtanga Ayurveda.
 - B. Concept of Dravya.
 - C. Classification of Guna.
 - D. Sushruta Samhita.
 - E. Concept of Pruthvi mahabhuta.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write the Qualities of Jala Mahabhuta.
 - B. Define Ayurveda.
 - C. Define Disha.
 - D. Define Atma.
 - E. Enlist Tanmatra.
 - F. Enlist Paradi Guna.

SECTION-B

5. Describe the utility of Dincharya in Pharmaceutical Science. 10
6. Answer any one out of two questions. 10
 - A. Explain occupational health hazards with its preventive measures.
- OR**
- B. Write Sources and Functions of Proteins. 20
7. Write short notes on any **Four** of the following : 20
 - A. Psychological Hazards.
 - B. Describe Varsha Ritu charya.
 - C. Write about Dharniya Vega.
 - D. Sadvritta.
 - E. National Vector born disease control Programme.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. What is meant by AIDS.
 - B. What is meant by STD.
 - C. Define Ahara.
 - D. Define Viruddha Ahara.
 - E. Write Advantages of Snana (Bath).
 - F. Define Achara Rasayana.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2019

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 28-05-2019
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 prescription. 10
2. Answer any one question. 10
 - (A) Write in detail on posology.
 - (B) Write in detail on dispensing pharmacy.
3. Write short notes on any four. 20
 - (A) Patient counselling
 - (B) Difference between retail and wholesale pharmacy.
 - (C) Care required in labelling.
 - (D) Incompatibilities in prescription.
 - (E) Maintenance of drug store.
4. Define the term any five. 10
 - (A) Pharmacovigilence.
 - (B) Patient counselling.
 - (C) Suppositories.
 - (D) Basti
 - (E) Asava and Arista.
 - (F) Packaging.

SECTION – B

5. Write in detail on drug distribution system. 10
6. Answer any one question. 10
 - (A) Write in detail on hospital pharmacy.
 - (B) Describe briefly on drug information services, records and reports.
7. Write short notes on any four. 20
 - (A) Processing of tablets.
 - (B) Processing of capsules
 - (C) Various techniques of sterilization.
 - (D) Surgical dressing.
 - (E) Drug budget.
8. Define the term any five. 10
 - (A) Syrup.
 - (B) Tincture.
 - (C) UDDDS.
 - (D) Hospital.
 - (E) Crepe bandage.
 - (F) Absorbable sutures.
