

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 05-12-2016
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 an essay on Prescription. 10
2. Answer any one out of two questions. 10
 - A. Explain the role of Pharmacist in community health care.
 - B. Write about incompatibilities of Prescription.
3. Write a short note on any **Four** of the following : 20
 - A. Discuss care required in dispensing procedure in order to maintain good hygienic condition.
 - B. Explain Young's formula.
 - C. Principles and procedures adopted for dispensing of Vati.
 - D. Function of wholesaler.
 - E. Define the term Antagonism – Synergism.
4. Answer any **Five** of the following : 10
 - A. Write the labels of Creams.
 - B. Give the dispensing procedure for Suppositories.
 - C. Define the term Pharmacovigilance.
 - D. Define the term Posology.
 - E. Define the term medical records.
 - F. How will you dispense Asava – Arishta ?

SECTION-B

5. Describe the drug distribution system in hospital – IPD. 10
6. Write a short note on any **Four** of the following : 10
 - A. Describe the concept of sterilization.
 - B. Describe about drug records and reports.
7. Write a short note on any **Four** of the following : 20
 - A. Explain in brief about drug information bulletin.
 - B. What is the difference between hard and soft gelatine Capsules ?
 - C. Describe the processing of Syrups.
 - D. Write in detail on surgical dressing.
 - E. Describe the function of Hospital and Hospital Pharmacy.
8. Answer any **Five** of the following : 10
 - A. Define Tinctures.
 - B. Name of different types of surgical dressing.
 - C. What is the use of hot air oven ?
 - D. Define Hospital Pharmacy.
 - E. Various size and number used for Capsules.
 - F. Use wise classification of Tablets.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Fundamentals of Ayurveda and Swasthavritta

Date: 03-12-2016
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. Describe the Guna in detail. 10
2. Answer any one out of two questions. 10
 - A. Write about Brihatrayee in detail.
 - B. Write about Rasa Ratna Samuchaya and Rasatarangini in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Anumana Pramana.
 - B. Kala and its importance in Pharmaceutical science.
 - C. Mana.
 - D. Laghutrayee.
 - E. Bhaishajya Ratnavali.
4. Answer any **Five** of the following : 10
 - A. Write the definition of Samavaya.
 - B. Write the definition of Vishesha.
 - C. Enlist the branches of Ayurveda.
 - D. Write the qualities of Agni Mahabhuta.
 - E. Write the qualities of Jala Mahabhuta.
 - F. Write the definition of Ayu.

SECTION-B

5. Write definition of Swastha and Swasthya and describe health benefits of Abhyanga and Vyayama. 10
6. Answer any one out of two questions. 10
 - A. Explain the importance of Indian Factories Act in relation to occupational health hazards.
 - B. Write the sources and functions of Vitamins.
7. Write a short note on any **Four** of the following : 20
 - A. Grishma Ritucharya.
 - B. Enlist Adharaniya Vega and write symptoms and treatment of withholding of Kshavathu, Nidra and Mutra Urges.
 - C. Write the sources of protein and fats along with their functions in body.
 - D. Physical hazards.
 - E. ESI Act.
8. Answer any **Five** of the following : 10
 - A. Write the health benefits of Snana.
 - B. What is meant by Aadanakala ?
 - C. What is meant by Ritusandhi ?
 - D. Definition of Aahara.
 - E. Enlist any four Dharaniya Vega.
 - F. Write the treatment of withholding urge of Kshudha.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Sharira (Anatomy & Physiology)

Date: 02-12-2016
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. Enlist the organs of the urinary system and write in detail about urinary bladder. 10
2. Answer any one out of two questions. 10
 - A. Write in detail about blood circulation.
 - B. Write in detail about Garbha-Sambhava Samagri.
3. Write a short note on any **Four** of the following : 20
 - A. Uterus.
 - B. Types of bone.
 - C. Liver.
 - D. Dhatu.
 - E. Karnendriya.
4. Answer any **Five** of the following : 10
 - A. Write divisions of urethra.
 - B. Enlist the types of Sandhi according to Ayurveda.
 - C. Write the location and length of duodenum.
 - D. Write the Lakshanas of Suddha Sukra.
 - E. Name the taste buds on tongue.
 - F. Enlist the organs of the external genitalia of male.

SECTION-B

5. Write in detail about Thyroid Gland. 10
6. Answer any one out of two questions. 10
 - A. Write in detail about Dhatu Poshana Nyaya.
 - B. Write the Lakshanas of Vriddhi and Kshaya of Mamsa along with Mamsasara Purusha.
7. Write a short note on any **Four** of the following : 20
 - A. Vata Dosha.
 - B. Supra renal glands.
 - C. Kapha Dosha.
 - D. Sukra Dhatu.
 - E. Agni.
8. Answer any **Five** of the following : 10
 - A. Write the Lakshanas of Vata Sanchaya.
 - B. Write the Malas of any two Dhatu.
 - C. Write the functions of Vitamin-A.
 - D. Enlist the components of blood.
 - E. Enlist the types of Pitta.
 - F. Write the Lakshanas of Pitta Vriddhi.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 01-12-2016
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. Write Swarasa Kalpana in detail. 10
2. Answer any one out of two questions. 10
 - A. Describe basic principles of Aushadha Nirmana.
 - B. Write collection, storage and preservation method of raw material.
3. Write a short note on any **Four** of the following : 20
 - A. Paayaa Maana.
 - B. Laksha Rasa.
 - C. Saviryata Avadhi of Sneha Kalpana.
 - D. Kshirapaka.
 - E. Ushnodaka.
4. Answer any **Five** of the following : 10
 - A. Write ingredients of Shadanga Paniya.
 - B. Write the uses of Churnodaka.
 - C. Write the definition of Maana.
 - D. Give the metric measurement of Pala and Ratti.
 - E. Write the ratio of Dravya and Drava for Phant Kalpana.
 - F. Write the definition of Bhaishajya Kalpana.

SECTION-B

5. Describe importance of Rasashastra in Ayurveda. 10
6. Answer any one out of two questions. 10
 - A. Write Parada Dosh and its Vishesh Shodhana.
 - B. Describe Urdhava Patana Yantra.
7. Write a short note on any **Four** of the following : 20
 - A. Dhalana.
 - B. Kajjali.
 - C. Parada Gati.
 - D. Gaja Puta.
 - E. Nagarjuna.
8. Answer any **Five** of the following : 10
 - A. Define Dhanvantari Bhaga.
 - B. Write importance of Bhavana.
 - C. Write author's name and period of Rasa Tarangini.
 - D. Write importance of Sandhi Bandhana.
 - E. Describe Tankana Shodhana.
 - F. Describe Sphatika Shodhana.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Chemistry (Organic)

Date: 30-11-2016
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 preparation, properties and uses of thioether. 10
2. Answer any **one** out of two questions. 10
 - A. Give IUPAC name of following (any **five**).
(1) \square (2) H-CHO (3) CH₃-OH (4) CH₂-COOH (5) CH₃-CN (6) $\begin{array}{c} \text{CH}_2\text{-OH} \\ | \\ \text{CH}_2\text{-OH} \\ | \\ \text{CH}_2\text{-OH} \end{array}$
 - B. Define molecular orbital, give its types.
3. Write a short note on any **Four** of the following : 20
 - A. Inductive effect.
 - B. Racemic modification.
 - C. Optical isomerism.
 - D. Acid, Base and neutral.
 - E. Stereo selective reaction.
4. Answer any **Five** of the following : 10
 - A. Define isomerisation.
 - B. Optical activity.
 - C. Define principal quantum number.
 - D. Draw the diagram of P-orbital.
 - E. Give principal of V.B. theory.
 - F. Define hydrogen bonding.

SECTION-B

5. Define nucleophilic substitution reaction and explain SN₁ reaction. 10
6. Answer any **one** out of two questions. 10
 - A. Explain E2 reaction.
 - B. Define organic reaction mechanism & its type of bond fission and bond formation.
7. Write a short note on any **Four** of the following : 20
 - A. Give properties and uses of alcohol.
 - B. Explain free radical.
 - C. Write resonance energy.
 - D. Method of preparation of aldehyde.
 - E. Explain Bi-molecular displacement mechanism.
8. Answer any **Five** of the following : 10
 - A. Test for aromatic and aliphatic compounds.
 - B. Uses of Alkyne.
 - C. Give energy profile diagram of SN₂ reaction.
 - D. Define electrophile.
 - E. Draw the structure of i-pentene & methane.
 - F. Define cation and anion.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Chemistry (Inorganic)

Date: 29-11-2016
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. Explain modern periodic table. 10
2. Answer any one out of two questions. 10
 - A. Limit test for chloride.
 - B. Define Buffer ? Explain its mechanism.
3. Answer any **Four** out of five questions : 20
 - A. Define titrate, titrant, indicator and end point. Explain primary standard.
 - B. Explain source of impurities.
 - C. Short note on ionization energy.
 - D. Explain acid base titration.
 - E. Uses of buffer in pharmacy.
4. Answer any **Five** out of six questions : 10
 - A. What is mendeleeff's periodic law.
 - B. Draw the structure of sodium salt of EDTA.
 - C. Define impurity.
 - D. Name any two indicators used in acid-base titration.
 - E. Write down Henderson – Hasselbalch equation.
 - F. Write selection criteria for buffer.

SECTION-B

5. Give assay, principle and reaction of Borax. 10
6. Write any **one** out of two questions : 10
 - A. Give method of preparation and assay of Ammonium chloride.
 - B. Experimental techniques of gravimetric analysis.
7. Answer any **Four** out of five questions : 20
 - A. Write properties, occurrence and uses of Iron.
 - B. Give names of antioxidants along with structure and uses.
 - C. Give occurrence and uses of calcium.
 - D. How antioxidant works.
 - E. Write occurrence and properties of mercury.
8. Answer any **Five** of six questions : 10
 - A. Draw the structure of Borax.
 - B. Give chemical name and structural formula of Green vitriol, Baking Soda.
 - C. Use of ammonium chloride.
 - D. Characteristics of antioxidants.
 - E. Why gold is known as noble metal ?
 - F. Define mother liquor and digestion.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Sanskrit

Date: 28-11-2016
Monday

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

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

1. कारक किसे कहते हैं ? सविस्तार समझाईए । 10
2. माहेश्वरसूत्र की उत्पत्ति लिखते हुए 'अच्' और 'हल्' प्रत्याहार के वर्णों को स्पष्ट कीजिए । 10

OR

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

3. Answer any **Four** of the following : 20

A. सन्धि कीजिए (कोई चार)।

- | | | |
|---------------|---------------------|------------------|
| (१) महा + ईशः | (२) उत्तर + उत्तरेण | (३) हित + उपदेश |
| (४) पौ + अफः | (५) सुधी + उपास्य | (६) श्री + ईशः । |

B. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

तृणानि भूमिरुदकं वाक् चतुर्थे च सुनृता ।
एतान्यपि सतां गेहे नौच्छिद्यन्ते कदाचनः ।

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

- | | | | |
|------------|----------|------------|----------------|
| (१) ऋषिणां | (२) नद्य | (३) देवस्य | (४) अस्माकम् । |
|------------|----------|------------|----------------|

D. निम्नलिखित धातु रूप लिखिए (कोई दो)।

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

E. 'पुस्तकः' अथवा 'भानु' शब्द का सभी विभक्तियों में रूप लिखो ।

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

- A. अव्यय शब्द की परिभाषा लिखो ।
- B. अंतःस्थः वर्ण कितने होते हैं ? नाम लिखो ।
- C. पंचमी विभक्ति को कौन सा कारक कहते हैं ?
- D. 'गच्छतीति' किस संधि को दर्शाता है ?
- E. काल कितने होते हैं ? नाम लिखो ।
- F. सर्वनाम किसे कहते हैं ?