

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Sanskrit

Date: 12-05-2017
Friday

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

Instructions: Every question is compulsory.

1. विभक्तियाँ सविस्तरपूर्वक समझाईए । 10
2. “लुब्धविप्रवृद्धव्याघ्रकथा” अपने शब्दोंमें लिखिए । 10

OR

2. “जरूदगवगीधकथा” से क्या बोध मिलता है ?
3. Answer any **Four** of the following : 20

A. संधि कीजिए ।

१.हितोपदेशः २.गंगा+उदकम् ३.ग्रन्थालयः ४.ब्रह्मर्षिः ५.गुरु+आदेशः ।

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

१. सा २. न ३. आदि ४. विना ५. एकम् ।

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

१. नृत् - वर्तमानकाल २. वद्- भूतकाल ३. आगम् - भविष्यकाल ।

D. शरीरम् अथवा शिशु शब्द का सभी विभक्तियों में रूप लिखें ।

E. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

तृणानिभूमिरूकं वाक्चतुर्थी च सुनृता ।
एतान्यपि सतां गेहे नोच्छिद्यते कदाचनः ॥

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

A. शिवसूत्र लिखे ।

B. रामेण, रामाणाम् शब्दों में कौन सी विभक्ति होती है ?

C. ‘पठ्’ धातु का प्रयोग करके दो वाक्य बनाईए ।

D. पंचमि व सप्तमि विभक्तियों के नाम लिखें ।

E. संधि क्या है ? उदाहरण द्वारा समझाईए ।

F. आचार्य पाणिनि और आचार्य विष्णुशर्मा ने कैसे ग्रंथ लिखे है ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

English

Date: 13-05-2017
Saturday

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. His father him a watch (give, gave, giving)
B. The ants the wasps (fight, fought, fighting)
C. I a severe pain in my head. (felt, feeling, will feel)
D. He enjoys cricket (play, playing, played)
E. you go to the market yesterday ? (Do, Did, Does)
2. Change following active sentences to passive sentences. 5
A. Sita loves Savita.
B. The Mason is building the wall.
C. The peon opened the gate.
D. He will finish the work in a fortnight.
E. The cat killed the mouse.
3. Choose the correct modal verb from those in bracket. 5
A. You obey the traffic rules (must, may, might)
B. you lend me yours pen ? (can, could, might)
C. We reach in time for the exam (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. He meeting the day before yesterday. (attending, attended, attend)
B. He is hard to pass. (try, tried, trying)
C. I to contact him today morning. (try, tried, trying)
D. He in a college (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. There is adequate food in the kitchen.
(a) less (b) sufficient (c) minimum (d) complete
2. He is well known in making dresses.
(a) popular (b) pioneer (c) new (d) great
3. The naval fleet conducted combat exercises in the Arabian sea last week.
(a) sheps (b) sheep (c) shit (d) sip
4. The girl was dressed in a pretty attire.
(a) clumsy (b) beautiful (c) ugly (d) interesting

[P.T.O.]

8. Read the following passage and answer the questions the follow

5

Does it seem like everyone you know is stressed out, too busy, or tired? Do you feel like you never have time to just relax? Do you daydream about being on vacation? Well, you are not alone. Most people have too much to do, and too little time. In addition, people in the United States think it is very important to get things done and keep busy. It is not surprising that stress is a common part of everyone's life.

We often think that a vacation will help us relax. But most of us find that after a few days back at work or school, we feel the usual stress. The question is, how can we make relaxation and leisure time part of our daily lives? Here are some ways to reduce stress in your everyday life.

1. Exercise! Exercise is one of the simplest and most effective ways to decrease stress. When we exercise, our body releases natural relaxants into our bloodstreams. Our stress level automatically goes down. If your day is stressful, take 20 minutes or more for a walk, a bike ride, or a sport.
 2. Get enough sleep. If you don't get enough sleep, you may feel more nervous or irritable. In addition, you will have a harder time concentrating and doing your work. When you can't work well, you create stress for yourself. When you have a good night's sleep, you will wake up with a good attitude about the day.
 3. Enjoy a sense of humor. Having a good laugh about something relaxes us. Laughter breaks tension and helps us take a break. Take time to read the comics in the newspaper, watch a comedy on TV or at the movies, or trade jokes with a friend.
 4. Eat properly. If you don't eat nutritional food, your body will feel tired and run down. Eat regular meals, and don't eat too much sugary food. Sugar gives quick energy, but soon you will feel tired again. Caffeine also gives a quick energy lift, but that energy will not last long. Also, too much caffeine can make you more nervous and anxious.
 5. Practice relaxation techniques. There are many different relaxation techniques that can help you reduce stress. Some techniques just take a few minutes, and can be done at any time during the day. Other methods require more time, and space for quiet time. Some common relaxation techniques are: deep breathing, meditation (sitting still and quieting the mind), visualizing peaceful scenes, massage, or yoga. Many schools and community education centres offer courses in relaxation techniques.
 6. Make time for some leisure activity every day. What do you like to do that relaxes you? Is there something you enjoy doing that always makes you feel better? Think about hobbies or activities that give you pleasure. Perhaps you like to cook, or garden, or read a book. Some people like to watch a TV show, or go shopping. Make a list of leisure activities that only require 30 or 40 minutes. These are the things you will probably have time to do during the week. But even a short break from your "to do" list will make a difference in your stress level.
- A. Give a suitable title to the topic.
 - B. Does vacation help reduce stress ?
 - C. What happens if you don't eat well ?
 - D. How can you reduce stress if you don't have much time ?
 - E. How does sleep affect your stress level ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Chemistry (Inorganic)

Date: 15-05-2017
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. Write periodic law and explain electronic configuration of first ten elements. 10
2. Answer any **one** out of two questions. 10
 - A. Describe limit test of iron.
 - B. Write a note on displacement titration.
3. Answer any **Four** out of five questions : 20
 - A. Write characteristics of Primary Standard.
 - B. Describe preparation of 1 N. NaOH and its standardization.
 - C. Explain fajan's method of precipitation titration.
 - D. Define ligand and classify it.
 - E. Explain acidimetry titration in detail.
4. Answer any **Five** out of six questions : 10
 - A. Define indicator and titration error.
 - B. Write uses of buffer solution.
 - C. What is Molarity and Molality ?
 - D. Give short mechanism of buffer solution.
 - E. What is iodimetry ?
 - F. Define limit test.

SECTION-B

5. Write properties and assay of ammonium chloride. 10
6. Write any **one** out of two questions : 10
 - A. Give reaction and medicinal uses of mercury and iron.
 - B. Write experimental technique of gravimetric analysis.
7. Answer any **Four** out of questions : 20
 - A. Write a note on assay of borax.
 - B. What is anti oxidant ? Write mechanism of it.
 - C. Explain nitrogen as an anti oxidant.
 - D. Write limitation of gravimetric analysis.
 - E. Describe properties of borax.
8. Answer any **Five** of six questions : 10
 - A. Explain filtration step of gravimetric analysis.
 - B. Write medicinal uses of calcium.
 - C. Describe uses of ammonium chloride.
 - D. Discuss uses of hypphosphorus acid as an antioxidant.
 - E. Give one application of gravimetric analysis.
 - F. Write two chemical properties of copper.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Chemistry (Organic)

Date: 16-05-2017
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 Racemic modification. Give note on any two methods of racemic modification in details. 10

2. Classify Thio compounds and write note on Thioalcohol. 10

OR

Draw structure of (a) Maleic acid (b) Aniline (c) Toluene (d) Butane (e) Pentane.

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

- A. Dipole moment.
- B. Stereo specific and Stereo selective reaction.
- C. Cis- and Trans- isomers.
- D. IUPAC name of $\text{CH}_3\text{-NO}_2$ & $\text{C}_2\text{H}_5\text{-SH}$.
- E. Two preparations of Thiophene.

4. Answer any **Five** of the following :(two to three sentences) 10

- A. Define Halogenation and Dehalogenation.
- B. Enantiomers.
- C. Define optical activity.
- D. Inductive effect.
- E. Uses of Thioether.
- F. Define Steochemistry.

SECTION-B

5. What is organic reaction mechanisms ? Explain Bond fission. 10

6. Give preparation, properties and uses of Aliphatic acid. 10

OR

Explain Aromatic nucleophilic substitution reaction and explain benzyne mechanism in detail.

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

- A. Carbanion ion.
- B. Hydrogen bonding with effects.
- C. Pyrolysis.
- D. Carboxylic acid and its uses.
- E. SN_2 reaction.

8. Answer any **Five** of the following :(two to three sentences) 10

- A. Define Electrophile and Nucleophile.
- B. Uses of Alkyne and Alkene.
- C. Aromatic compound.
- D. Free radicals.
- E. Structure of Cinnamaldehyde.
- F. Electrophilic addition.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 17-05-2017
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. Write collection, storage and preservation of raw-material in brief. 10
2. Answer any one out of two questions. 10
 - A. Describe Mana Paribhasha in brief.
 - B. Describe basic principle of Aushadha Nirmana in brief.
3. Write a short note on any **Four** of the following : 20
 - A. Write ingredient, preparation method and use of : Tulasi Swarasa.
 - B. Write ingredient, preparation method and use of : Triphala Kwatha.
 - C. Write ingredient, preparation method and use of : Nimbapatra Kalka.
 - D. Write ingredient, preparation method and use of : Dhanyaka Hima.
 - E. Write ingredient, preparation method and use of : Sudarshana Phant.
4. Answer any **Five** of the following : 10
 - A. Write Saviryata Avadhi of Sneha Kalpana and Sandhana Kalpana.
 - B. Write the dose and use of Arjuna Kshirapaka.
 - C. Write the preparation method of Shadangapaniya.
 - D. Write the preparation method of Laksharasa.
 - E. Write the dose and use of Vasa Putapaka Swarasa.
 - F. Write the dose and use of Kharjuradi Mantha.

SECTION-B

5. Describe Mahaputa and Gajaputa in detail. 10
6. Answer any one out of two questions. 10
 - A. Write about ancient Rasashala.
 - B. Write about modern Rasashala.
7. Write a short note on any **Four** of the following : 20
 - A. Parada Gati.
 - B. Rasa Ratna Samuchchaya.
 - C. Nirvapa.
 - D. Patala Yantra.
 - E. Uparasa.
8. Answer any **Five** of the following : 10
 - A. Write the importance of Dravaka Gana.
 - B. Define Vrutaka Musha.
 - C. Write the definition of Kajjali.
 - D. Write the importance of Satva.
 - E. Enlist the use of Kharala Yantra.
 - F. Write the Grahya Lakshana of Parada.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Sharira (Anatomy & Physiology)

Date: 18-05-2017
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. Write the classification and opinions regarding number of bones according to Ayurved. 10
2. Answer any one out of two questions. 10
 - A. Write about Female Reproductive System.
 - B. Write about Special Senses.
3. Write a short note on any **Four** of the following : 20
 - A. Stomach.
 - B. Blood Vessels.
 - C. Structure of the Lungs.
 - D. Oral Cavity.
 - E. Shadanga Shaarira.
4. Answer any **Five** of the following : 10
 - A. Define Koshtha.
 - B. Enlist the organs of the Urinary System.
 - C. Draw the external features of the Liver.
 - D. Enlist the Garbhasambhava Samagri.
 - E. Write the names of any four Srotasa.
 - F. Enlist the layers of the Skin according to Acharya Charaka.

SECTION-B

5. Describe the physiology of Respiratory System. 10
6. Answer any one out of two questions. 10
 - A. Explain the types of Agni.
 - B. Write about Dhatu Poshana Krama.
7. Write a short note on any **Four** of the following : 20
 - A. Mechanism of Micturation.
 - B. Pitta Dosha.
 - C. Dhatvagni.
 - D. Upadhatu.
 - E. Functions of Pancreas.
8. Answer any **Five** of the following : 10
 - A. Write the functions of the Dendrites.
 - B. Write the functions of the Platelets.
 - C. Enlist the types of Kapha Dosha.
 - D. Enlist the types of WBC.
 - E. Define Mala.
 - F. Write the full form of PNS.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Fundamentals of Ayurveda and Swasthavritta

Date: 19-05-2017
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. Explaining the importance of Pramana describe Yukti Pramana. 10
2. Answer any one out of two questions. 10
 - A. “समवायीः तु ... गुणः ” Explaining this stanza write importance of Guna.
 - B. Describe Ashtanga Ayurveda.
3. Write a short note on any **Four** of the following : 20
 - A. Classification of Dravya.
 - B. Concept of Kaala(काल).
 - C. Charaka Samhita.
 - D. Vishesha.
 - E. Samavaya.
4. Answer any **Five** of the following : 10
 - A. Enlist the types of Samanya.
 - B. Define Padartha.
 - C. Define Karma.
 - D. Define Ayurveda.
 - E. Define Mana.
 - F. Write the synonyms of Vayu Mahabhoota.

SECTION-B

5. Explain Dharaniya Vega and their utility in health maintain. 10
6. Answer any one out of two questions. 10
 - A. Describing Ritusandhi explain Varsha Ritucharya.
 - B. Explain Factory Act.
7. Write a short note on any **Four** of the following : 20
 - A. Adharaniya Vega.
 - B. National Rural Health Mission.
 - C. National STD control programme.
 - D. Vasanta Ritucharya.
 - E. Concept of Swastha and Swasthya.
8. Answer any **Five** of the following : 10
 - A. Enlist Vitamins.
 - B. Functions of the Carbohydrates.
 - C. Sources of Protein.
 - D. Write advantages of Snana (Bath).
 - E. Define Sadvritta.
 - F. Define Viruddha Ahara.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 20-05-2017
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. Write the principles and procedures adopted in dispensing mixtures in powder and Asava. 10
2. Answer any one out of two questions. 10
 - A. Write in detail on prescription.
 - B. Write in detail on Posology.
3. Write a short note on any **Four** of the following : 20
 - A. Labelling.
 - B. Care required in storage and packaging.
 - C. Handling of prescription.
 - D. Functions of wholesaler and retailer pharmacy.
 - E. Patient counselling.
4. Answer any **Five** of the following : 10
 - A. Define Basti.
 - B. Define suppositories.
 - C. Define drug store.
 - D. What should you write on the label of Kwatha.
 - E. Define pharmacovigilance.
 - F. Advantages of tablets.

SECTION-B

5. Explain various technics of sterilization in detail. 10
6. Answer any one out of two questions. 10
 - A. Write in detail on processing of syrup.
 - B. Write in detail on drug distribution system in hospital.
7. Write a short note on any **Four** of the following : 20
 - A. Functions of hospital pharmacy.
 - B. Surgical dressing.
 - C. Drug budget.
 - D. Tincture.
 - E. Advantages and disadvantages of capsules.
8. Answer any **Five** of the following : 10
 - A. Define hospital.
 - B. Define Asava-Arishta.
 - C. Write the classification of tablets (use wise).
 - D. Write the types of capsules.
 - E. Write any two examples of syrup.
 - F. Write the meaning of OPD and IPD.