

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharma(Ayu.) First Year Examination November-2014

Fundamentals of Ayurveda and Swasthavritta

Date: 24-11-2014
Monday

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. Describe Pratyaksha Pramana along with its classification and importance. 10
2. Describe concept of Panchamahabhuta and its utility in pharmaceutical science. 10

OR

Write introduction to Laghutrayi and their importance in pharmaceutical science.

3. Write short note on any **Four** of the following : 20
A. Charaka Samhita.
B. Yukti Pramana.
C. Ashtanga Ayurveda.
D. Samanya Padartha.
E. Classification of Dravya.
4. Answer any **Five** of the following : 10
A. Write the definition of Pramana.
B. Enlist Kaarana Dravyas.
C. Write definition of Apta Purusha.
D. Write the characteristics of Padartha.
E. Define Chetana and Achetana.
F. Write definition and types of Atma.

SECTION-B

5. Write definition of words "Aahara" and "nutrition" and describe their importance in health. 10
6. Write importance of Adharaniya Vega and its effects on general health. 10

OR

Describe the concept of Dinacharya and its relevance in pharmaceutical science.

7. Write short note on any **Four** of the following : 20
A. Concept of Swasthavritta.
B. Grisma Ritucharya.
C. Industrial health hazards.
D. Sadvritta.
E. Introduction of factory act.
8. Answer any **Five** of the following : 10
A. Which are Adharaniya Vega ?
B. Write the full form of NVBDCP.
C. State of Doshas in Vasant Ritu.
D. Write the names of two national health programmes.
E. Functions of protein.
F. Define Swastha & Swasthavritta.

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharm(Ayu.) First Year Examination November-2014

Sharira (Anatomy & Physiology)

Date: 22-11-2014
Saturday

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. Describe the Masanumasika Vriddhi of Garbha. 10
2. Describe the general features of tissue and describe the muscle tissue in detail. 10

OR

Describe the component structures of the respiratory system and write about nasal cavity in detail with figure.

3. Write short note on any **Four** of the following : 20
A. Liver with figure.
B. Small intestine with figure.
C. Foetal blood circulation.
D. Describe Shuddha Shukra and structure of the sperm with figure.
E. Write the name and numbers of the Srotasa according to the Sushruta.
4. Answer any **Five** of the following : 10
A. Write about the types of Asthi according to the Sushruta.
B. Name the auditory ossicles.
C. Describe the term proximal and distal.
D. Explain the difference between embryo and foetus.
E. Name the major endocrine glands of male and female.
F. Write the parts and muscles of uterus.

SECTION-B

5. Describe the hormones of thyroid gland along with their functions. 10
6. What is Avasthapaka ? Explain its types in detail. 10

OR

Define Prakruti and describe the Prakruti Nirmanakara Bhava in detail.

7. Write short note on any **Four** of the following : 20
A. Write the Guna, Karma, Sthana and types of Kapha Dosha.
B. Types and importance of Agni.
C. Write about the digestion taking place in the stomach.
D. Write the functions of pancreas.
E. Describe the Medasara Purusha.
8. Answer any **Five** of the following : 10
A. Write about Kedarikulya Nyaya.
B. Explain the relationship between Asthi and Vata.
C. Write seat and functions of Samana Vayu.
D. Mention the Lakshana of Ojokshaya.
E. Write the Lakshana of Kapha Sanchaya.
F. Mention the functions of the testosterone hormone.

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharm(Ayu.) First Year Examination November-2014

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic pharmaceuticals)

Date: 21-11-2014
Friday

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. Write about collection and storage of raw materials. 10
2. Describe basic principles pertaining to Aushadha Nirmana. 10

OR

State importance of Mana Paribhasha and give metric equivalents of Masha, Karsha, Ratti, Angula and Ahoratra.

3. Write short note on any **Four** of the following : 20
A. Kwatha Kalpana.
B. Aushadha Siddha Paniya.
C. Tandulodaka.
D. Nimba Patra Kalka.
E. Mustakadi Pramathya.
4. Answer any **Five** of the following : 10
A. Define Bhaishajya Kalpana.
B. Saviryata Avadhi of Gutika Kalpana.
C. Ideal season for collection of Vaman Virechana Dravyas.
D. Which Chandana should be used for preparing Kwatha ?
E. Method of Kshira Paka.
F. Dose and use of Dhanyakadi Hima.

SECTION-B

5. Describe Rasashala as per ancient time. 10
6. Write about Parada Vikara and Prashamana. 10

OR

Explain Shodhana and Marana.

7. Write short note on any **Four** of the following : 20
A. Gandhaka Shodhana.
B. Mahaputa.
C. Parada Dosha.
D. Vanga Shodhana.
E. Musha Nirmana.
8. Answer any **Five** of the following : 10
A. Method of Parada Shodhana.
B. English name and formula of Haratala.
C. Dravyas of Mitra Panchaka.
D. Why are Damaru and Valuka Yantra named so ?
E. Define Nirvapa and give an example.
F. Boiling point of Parada.

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharm(Ayu.) First Year Examination November-2014

Pharmaceutical Chemistry (Organic)

Date: 20-11-2014
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 thioether. Give preparation and uses of thioether. 10
2. Give IUPAC name of following (any five).
i. $\text{CH}_3\text{-CH=CH}_2$ ii. $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-O-CH}_3$ iii. CH_3NO_2
iv. H-CHO v. $\text{C}_2\text{H}_5\text{-OCO-CH}_3$ vi. $\text{CH}_3\text{-COCl}$

OR

Short note on H-bonding.

3. Write short note on any **Four** of the following : 20
A. Explain elements of symmetry.
B. Write a short note on electronegativity.
C. Explain covalent bond.
D. Write a note on stereo-selectivity.
E. Difference between inductive effect ? Electrometric effect.
4. Answer any **Five** of the following : 10
A. Define orbitals.
B. Define quantum no.
C. Define acid & base according to Arrhenius theory.
D. Difference between bonding & anti-bonding according to molecular orbital theory.
E. Define enantiomers & diastereomers.
F. Use of alcohol.

SECTION-B

5. Define SN_1 reaction. Write about SN_1 reaction along with energy profile diagram. 10
6. Write elimination reaction. Explain E_1 . 10
- OR
- What is substitution reaction ? Explain SN_2 reaction.
7. Write short note on any **Four** of the following : 20
A. Explain electrophile.
B. Types of reactions.
C. Chemical properties of α, β unsaturated compound.
D. Explain walden inversion.
E. Define alcohol. Give chemical properties of aromatic alcohol.
8. Answer any **Five** of the following : 10
A. Give types of resonance.
B. Use of alkane.
C. Pyrolysis.
D. Write Grignard's reaction.
E. Give two examples of α, β unsaturated carbonyl compound.
F. Give IUPAC name of i.  ii. $\text{CH}_3\text{-CH}_2\text{-COOH}$.

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharm(Ayu.) First Year Examination November-2014

Pharmaceutical Chemistry (Inorganic)

Date: 19-11-2014
Wednesday

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. Explain the constitution of a periodic table. 10
2. Define limit tests. How is it important in pharmacy? 10

OR

What is the importance of Gutzeit test?

3. Write short note on any **Four** of the following : 20
A. Define : Iodometry, direct titration, endpoint, precipitation titration and molality.
B. Volhard method.
C. Explain the mechanism of buffer solutions.
D. What is acidimetry? Prepare 1 liter of 0.1N KMnO_4 solution.
E. Name primary standards and their characteristics.
4. Answer any **Five** of the following : 10
A. Classify ligands.
B. Explain limit test for chlorine.
C. Define : period and group. Mention the number of periods.
D. Give a brief account of EDTA.
E. Define buffer. Name any two buffers and draw their structures.
F. Differentiate between normality and molarity.

SECTION-B

5. Explain the preparation, assay and uses of borax. 10
6. What are antioxidants? Explain use of hypophosphorous acid. 10

OR

Explain gravimetric estimation of Fe.

7. Write short note on any **Four** of the following : 20
A. Explain occurrence and uses of Fe and Pb.
B. Explain uses of ammonium chloride.
C. Explain the use of nitrogen as antioxidant.
D. How are precipitates obtained and washed in gravimetry?
E. Mention properties of S and K.
8. Answer any **Five** of the following : 10
A. What are the sources of calcium and gold?
B. Explain preparation and use of sodium thiosulphate as antioxidant.
C. Write structures of sodium metabisulphate and hypophosphorous acid.
D. What are limitations of gravimetric analysis?
E. What is the standard weighing process of precipitates obtained by gravimetry?
F. Mention medicinal uses of Hg and K.

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharm(Ayu.) First Year Examination November-2014

English

Date: 18-11-2014
Tuesday

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

Instructions: 1. Every question is compulsory.

1. Write a paragraph in about 125 words on any one of the following : 10
- A visit to a hill station.
 - My experience at my college.
 - "Rome was not built in a day".
2. Answer any **Two** of the following : 10
- How did the boy spend his Sundays ?
 - What are the indications that Schatz is ill ?
 - What was the impact of news on Rahim Khan about his wife's action ?

OR

2. Answer any **Two** of the following :
- How did the boy remember about his mother's death ?
 - Why did the boy suddenly become sad on returning home ?
 - Why did Mona Marianna become unhappy ?
3. Answer any **Four** of the following : 20
- "I am going to die".
 - "You can not die at this temperature".
 - "It is Satan's work".
 - "You really are a brick".
 - "One can talk endlessly about mothers".
4. Fill in the blanks with proper word given in bracket (Answer any **Five**) : 10
- The monkeys were sitting the tree. (in, on, up).
 - The cat jumped the well. (in, into, under)
 - Work hard you will fail. (and, or, that)
 - is your ambition in life ? (What, When, Who)
 - The station still 10 minutes away. (is, on, under)
 - The inspector after the thief ran away.(arrived, is arriving, was arriving)

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

B. Pharm(Ayu.) First Year Examination November-2014

Sanskrit

Date: 17-11-2014
Monday

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

Instructions: Every question is compulsory.

1. कारक कितने प्रकार के होते हैं ? द्वितीया, तृतीया चतुर्थी या पंचमी विभक्त में से 10
किन्हीं दो को उदाहरण सहित स्पष्ट कीजिए ।
2. “भाहेश्वरसूत्र” की उत्पत्ति लिखते हुए ‘अच्’ और ‘हल्’ प्रत्याहार के वर्णों को 10
स्पष्ट कीजिए ।

OR

2. शिशु अथवा गज शब्द का सभी विभक्तियों में रूप लिखें ॥
3. Answer any Four of the following : 20
 - A. ‘जरद्गवगीध कथा’ का बोध अपने शब्दों में लिखिए ।
 - B. संधि कीजिए (कोई पांच) ।
 १. सुधी + ईशः
 २. तथा + एव
 ३. बालो + अवदत्
 ४. तत् + श्रुत्वाः
 ५. दुष् + त
 - C. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

“अयं निजः परो वेति गणना लघुचेतसाम् ।
उदारचरितरनां तु वसुधैव कुटुम्बकम् ॥”
 - D. निम्नलिखित रूपों की पहचान दीजिए (कोई दो) ।
 १. पितरः
 २. वारिणः
 ३. फलस्य
 ४. लताः
 - E. आयुर्वेद एवं संस्कृत का समन्वय कीजिए ।
4. Answer any Five of the following : 10
 - A. सम्प्रदान का अर्थ स्पष्ट कीजिए ।
 - B. हितोपदेश के रचयिता का नाम लिखें ।
 - C. किन्हीं दो अव्ययों का वाक्य प्रयोग कीजिए ।
 - D. ताः अथवा अस्माकम् शब्द का वाक्य प्रयोग कीजिए ।
 - E. ‘गच्छतीति’ किस संधि को दर्शाता है ?
 - F. व्यंजन के प्रकार स्पष्ट कीजिए ।
