

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

1. कारक कितने प्रकार के होते हैं ? सविस्तार समझाईए । 10
2. "जरद्गवगीध" कथा अपने शब्दों में लिखकर बोध लिखिए । 10

OR

"लुब्धविप्रवृद्धव्याघ्र" कथा अपने शब्दों में लिखकर बोध लिखिए ।

3. Answer any Four of the following : 20

A. सन्धि कीजिए (कोई चार) ।

- (१) पौ + अकः (२) कवि + इशः (३) बालो + अवदत  
(४) सुधी + ईश (५) महा + ऋषि (६) लृ + आकृति ।

B. निम्नलिखित नामरूपों की पहचानकर कीजिए (कोई दो) ।

- (१) हरयः (२) नद्य (३) वृक्षाणां (४) वयम् ।

C. निम्नलिखित धातु रूप लिखिए (कोई दो) ।

- (१) 'गम्' धातु लोट् लकार ।  
(२) 'पच्' धातु लट् लकार ।  
(३) 'हस्' धातु लृट् लकार ।

D. 'राम' एवं 'पितृ' शब्द को सभी विभक्तियों में लिखो ।

E. निम्नलिखित पद्य का भावार्थ स्पष्ट कीजिए ।

उत्तमस्थापि वर्णस्य नीचोऽपि गृहमागतः । पूजनीयो यथायोग्यं सर्वदेवमयोऽतिथिः ॥

4. Answer any Five of the following : 10

- A. मूर्धन्य स्थान से बोले जाने वाले स्वर व व्यंजन वर्ण कौन से हैं ?  
B. अन्तस्थः वर्ण कितने होते हैं ? नाम लिखें ।  
C. 'सर्वनाम' किसे कहते हैं ?  
D. अष्टाध्यायी में कितने अध्याय हैं ?  
E. 'एच्' व 'यर्' प्रत्याहार में कौन-कौन से वर्ण होते हैं ?  
F. दीर्घ स्वर कौन से हैं ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2015

Pharmaceutical Chemistry (Inorganic)

Date: 09-05-2015  
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 physical changes in properties of element related to horizontal, vertical and diagonal relationship in periodic table. 10
2. Answer any **one** out of two questions. 10
  - A. What is limit test ? Explain limit test for chloride (IP method).
  - B. How to measure arsenic by gutzeit test ?
3. Answer any **Four** out of five questions : 20
  - A. Explain primary standards and give its characteristics.
  - B. How to prepare 1 N HCl ? Write standardization method of it.
  - C. What is buffer solution ? Write its mechanism.
  - D. Define Normality, Molarity, End point.
  - E. Write a note on alkalimetry.
4. Answer any **Five** out of six questions : 10
  - A. Write medeleef's periodic law.
  - B. Define Titrate and Titrant.
  - C. Write any two uses of buffer solution.
  - D. Describe types of EDTA Titration.
  - E. Illustrate two importance of limit tests.
  - F. Write any three primary standards with their structure.

SECTION-B

5. What is anti oxidant ? Write a criteria for a substance to act as antioxidant. 10
6. Write any **one** out of two questions : 10
  - A. Explain different steps of gravimetric analysis.
  - B. Write assay and uses of borax.
7. Answer any **Four** out of questions : 20
  - A. Give occurrence and properties of mercury and sodium.
  - B. Explain preparation and washing of precipitate.
  - C. Write a note on mechanism of action of antioxidant.
  - D. Write sodium thiosulphate as an anti oxidant.
  - E. Describe method for estimating aluminium from alum.
8. Answer any **Five** of six questions : 10
  - A. Write any two criteria for substance to act as an antioxidant.
  - B. Explain in short : theory of gravimetric analysis.
  - C. Write two limitations of gravimetric analysis.
  - D. Write properties of sodium metabisulphite.
  - E. Write uses of ammonium chloride.
  - F. Give properties of borax (any two).

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : July - 2015 (Re-exam)

English

Date: 22-07-2015  
Wednesday

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. All of them were punished for ..... so much noise (make, making, made)  
B. Soham fell ill by ..... contaminated food. (eating, eat, eaten)  
C. The teacher ..... him from going out. (stop, stopping, stopped)  
D. On ..... the news, the meeting was postponed (hear, hearing, heard)  
E. Shyam is ..... by Kamla. (like, liking, liked).
2. Change following active sentences to passive sentences. 5  
A. His teacher punished him.  
B. Sarita opened the door.  
C. My brother calls me everyday.  
D. We expect good news.  
E. We took breakfast in the morning.
3. Choose the correct modal verb from those given in brackets. 5  
A. I ..... leave as I have to go to Rajkot. (have to, has to, would)  
B. She ..... go to bed earlier as she looks very tired. (should, would, could)  
C. We ..... pass the exam. (should, must, can)  
D. They ..... to pay more attention on studies rather than playing (must, need, has)  
E. I am sorry but we ..... to your party next Saturday.  
(can come, can't come, could not come)
4. Fill in the blanks with correct verb form those given in brackets. 5  
A. She is ..... to appear for the test on Monday. (go, going, gone)  
B. He is ..... the concert tonight. (attend, attended, attending)  
C. Rajiv is ..... hard for the exam. (work, working, worked)  
D. My brother ..... me to take precaution while going out. (advised, advised, advise)  
E. They are ..... the jobs soon. (change, changed, changing)
5. A. Find out the **synonym** for the underlined word from the options given, write only answer option. 4  
1. It was a hazardous journey.  
(a) haphazard (b) dangerous (c) horrible (d) tiresome  
2. I wrote to him as lately as last week.  
(a) immediately (b) early (c) recently (d) late  
3. The recent act of vandalism in the country cannot be ignored.  
(a) disturbance (b) ravage (c) provocation (d) violence  
4. She has an insatiable love for music.  
(a) unsatisfiable (b) unchanging (c) irreconcilable (d) undesirable
5. B. Find out the **antonym** for the word from the options given. 4  
1. Concrete  
(a) imperfect (b) inexact (c) incorrect (d) abstract  
2. Vertical  
(a) parallel (b) horizontal (c) slanting (d) straight  
3. Amateur  
(a) average (b) skilled (c) experienced (d) professional  
4. Pamper  
(a) scold (b) discourage (c) scorn (d) neglect

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2015

Pharmaceutical Chemistry (Organic)

Date: 11-05-2015  
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 thioether. Give preparation and properties of thioether. 10
2. Answer any **one** out of two questions. 10
  - A. Draw the structure of given compound. (any five)  
(1) Maleic acid (2) Benzene sulphuric acid (3)  $\beta$  - naphthol (4) Aniline  
(5) Cyclobutane (6) Glycerol.
  - B. Write a short note on dipole moment.
3. Answer any **Four** out of five questions : 20
  - A. Difference between  $E_2$  and  $E_1$ .
  - B. Explain the optical activity.
  - C. Define isomerism. Write a note on Cis and trans isomerism.
  - D. Short note on thiophene.
  - E. Describe the Pauling Slater theory.
4. Answer any **Five** out of six questions : 10
  - A. Define Halogenation.
  - B. Define Nitration.
  - C. Define stereo chemistry.
  - D. Use of thio alcohol.
  - E. Draw the structure of Phenol and TNT.
  - F. Define symmetric and asymmetric.

SECTION-B

5. Explain the hydrogen bonding with its effects. 10
6. Write any **one** out of two questions : 10
  - A. Write preparation, properties and uses of Ketone.
  - B. What is aromatic nucleophilic substitution reaction ? Explain the benzyne mechanism as types of reaction.
7. Answer any **Four** out of questions : 20
  - A. Write a note on carbonium ion.
  - B. Explain  $SN_2$  reaction.
  - C. Give properties and uses of alkenes.
  - D. How will you distinguish between primary, secondary and tertiary alcohol.
  - E. What is conjugated system ? Explain the Michael addition reaction.
8. Answer any **Five** of six questions : 10
  - A. Define rearrangement reaction with example.
  - B. Define carbonium ion or anion.
  - C. Uses of Ketone.
  - D. Define homolysis.
  - E. Uses of aliphatic acid.
  - F. Draw energy diagram of  $SN_1$  reaction mechanism.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2015

**Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)**

Date: 12-05-2015  
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 Mana Paribhasha in detail.
  - B. Write Kshirapaka Kalpana in detail.
3. Answer any **Four** out of five questions : 20
  - A. Collection of Raw Material.
  - B. Churnodaka.
  - C. Importance of Bhaishajya Kalpana in Ayurveda.
  - D. Write any two principles of Aushadha Nirmana.
  - E. Importance of Savirya Avadhi.
4. Answer any **Five** out of six questions : 10
  - A. Write the names of Panchavidha Kashaya Kalpana.
  - B. Give two examples of Upakalpana of Kwatha.
  - C. Describe Pramathya in brief.
  - D. Write the definition of Hima.
  - E. Write the dose of Phant Kalpana.
  - F. Describe the preparation method of Tandulodaka

**SECTION-B**

5. Write the importance of Puta and describe Mahaputa in detail. 10
6. Write any **one** out of two questions : 10
  - A. Describe Rasashala from ancient aspect.
  - B. Describe Rasashala from modern aspect.
7. Answer any **Four** out of questions : 20
  - A. Parada Gati.
  - B. Kajjali.
  - C. Valuka Yantra.
  - D. Importance of Shodhana.
  - E. Sphatika Shodhana.
8. Answer any **Five** of six questions : 10
  - A. Write ingredients of Dravaka Gana.
  - B. Write the Grahya Lakshanas of Parada.
  - C. Write the name of dravyas included in Maharasa.
  - D. Describe Banga Shodhana.
  - E. Give the english name and chemical formula of Hingula.
  - F. Define Dhanvantari Bhaga.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2015

**Sharira (Anatomy & Physiology)**

Date: 13-05-2015  
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 the component structure of the male reproductive system and write about penis in detail with figure. 10
2. Answer any one out of two questions. 10
  - A. Describe the component structures of the Urinary System and write about blood circulation of Kidney with figure.
  - B. Describe the Garbhaavakranti in detail.
3. Answer any Four out of five questions : 20
  - A. Describe the 'Chakshu Indriya' in detail.
  - B. Describe the classification of bones according to the Ayurveda and Modern science in detail.
  - C. Describe the Umbilical cord.
  - D. Describe the Kidney in detail with figure.
  - E. Describe the Heart in detail with figure.
4. Answer any Five out of six questions : 10
  - A. Define the word 'Ashaya'.
  - B. Write about pulmonary arteries.
  - C. Write the definition of the 'Sharir'.
  - D. Write about 'Bahirmukha Srotas'.
  - E. Write short note on structure of the Ovum.
  - F. Enlist layers of Eye Ball.

**SECTION-B**

5. Describe nourishment of 'Shukra Dhatu' with different 'Dhatu Poshana Nyaya' in detail. 10
6. Write any one out of two questions : 10
  - A. Describe the concept of Agni and its role in digestion.
  - B. Describe the Vriddhi and Kshaya Lakshana of Rasa Dhatu and its relations with Stanya.
7. Answer any Four out of five questions : 20
  - A. Write the classification of Pitta Dosha.
  - B. Describe Ekakala Dhatu Poshana Nyaya.
  - C. Write the brief introduction of thyroid gland.
  - D. Write the classification of Vata Dosha.
  - E. Write the functions of stomach.
8. Answer any Five of six questions : 10
  - A. Explain the characteristic features of 'Shuddha Artava'.
  - B. Write about 'Tridosha - Triguna' relation.
  - C. What is the normal size and shape of RBC ? explain in brief.
  - D. Write the characteristic features of the 'Kapha Prakruti Purusha'.
  - E. Write about 'Udana Vayu'.
  - F. Name the fat and water soluble vitamins.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2015

**Fundamentals of Ayurveda and Swasthavritta**

Date: 15-05-2015  
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. Define Ayurveda. Give the brief description of Ashtanga Ayurveda. 10
2. Answer any one out of two questions. 10
  - A. Describe Aptopadesh Pramana.
  - B. Enlist the books of Brihatrayi and describe the contribution of Charaka Samhita in Pharmaceutical Science.
3. Answer any **Four** out of five questions : 20
  - A. Explain the utility of Guna in Pharmaceutical Science.
  - B. Classify Dravya.
  - C. Write a short note about Samvaya.
  - D. Write an introductory note on Pratyaksha.
  - E. Write about Panchaavayava of Anumana Pramana.
4. Answer any **Five** out of six questions : 10
  - A. Enlist types of Anumana Pramana.
  - B. Define Yukti.
  - C. Define Karma.
  - D. Enlist Karana Dravya.
  - E. Define Atma.
  - F. Define Disha.

**SECTION-B**

5. Define 'Swastha' and describe about its concept in Ayurveda. 10
6. Write any **one** out of two questions : 10
  - A. Write an essay on carbohydrates.
  - B. Explain the relevance of Sadvritta in Pharmaceutical Science.
7. Answer any **Four** out of questions : 20
  - A. Write a short note about NRHM.
  - B. Give brief introduction of factory Act.
  - C. Describe briefly about occupational health hazards.
  - D. Write short note about Dharniya Vega.
  - E. Enlist Adharniya Vega according to Vagbhatta.
8. Answer any **Five** of six questions : 10
  - A. Enlist functions of Fat.
  - B. Enlist source of Protein.
  - C. Enlist disease due to Purish Vegadharana.
  - D. Write the Doshika status of Sharad Ritu.
  - E. Write at least four names of occupational diseases.
  - F. Write short note on RCH.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May - 2015

**Dispensing, Community Pharmacy and Hospital Pharmacy**

Date: 16-05-2015  
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 definition and scope of Dispensing Pharmacy. 10
2. Answer any one out of two questions. 10
  - A. Write the Principles and procedures adopted in dispensing mixtures in Kwatha and Vati.
  - B. Write in detail about labelling.
3. Write a short note on any **Four** of the following : 20
  - A. Handling of prescription.
  - B. Write on Antagonism and Synergism.
  - C. Write the role and contribution of Pharmacist in Community Health Care.
  - D. Care required in dispensing procedures.
  - E. Describe the functions of retailer.
4. Answer any **Five** of the following : 10
  - A. Define the term Incompatibilities.
  - B. Write Young's formula.
  - C. What should you write on the label of Bhasma ?
  - D. Explain the term wholesaler.
  - E. What is the difference between Asava – Arishta ?
  - F. What is the meaning of Patient Counselling ?

**SECTION-B**

5. Describe Hospital Pharmacy in detail. 10
6. Write a short note on any **Four** of the following : 10
  - A. Write in detail on various techniques of sterilization.
  - B. Write in detail on Drug Information Services.
7. Write a short note on any **Four** of the following : 20
  - A. Write on Drug Budget.
  - B. Write the functions of Hospitals.
  - C. Write the processing of tablet in brief.
  - D. What is surgical dressing ?
  - E. Describe the classification of hospital.
8. Answer any **Five** of the following : 10
  - A. Give difference between OPD – IPD.
  - B. What is tinctures ?
  - C. Define sterilization.
  - D. What is unit dose drug distribution system.
  - E. Give two names of sterilization equipments.
  - F. Benefits of tablets.

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