

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

RASASHASTRA AND BHAISHAJYA KALPANA - I (AYURVEDIC PHARMACEUTICS)

Date : 11/02/2025

Time : 10:00 A.M. - 01:00 P.M.

Tuesday

Marks : 100

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

SECTION-A

1. Enumerate the *Panchavidha Kashaya Kalpana*. Explain *Kwatha Kalpana* in detail. 10
2. Define *Saveeryata Avadhi*. Explain *Saveeryata Avadhi* of Ayurvedic drugs as per ancient and modern aspect. 10

OR

Define *Bhaishajya Kalpana*. Explain the basic principles of *Aushadha Nirmana*.

3. Write short notes on any **Four** of the following: 20
 - A. *Aushadha Siddha Paniya*
 - B. *Pramathya Kalpana*
 - C. Collection and storage of raw materials.
 - D. *Vasa Putapaka Swarasa*
 - E. *Arjuna Kshirapaka*
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write the definition of *Aushadha*.
 - B. Write the indications of *Ardraka Swarasa*.
 - C. Write the dose and shelf-life of *Kalka Kalpana*.
 - D. Write the uses of *Tandulodaka*.
 - E. Write the definition of *Hima Kalpana*.
 - F. Write the ingredients of *Kharjuradi Mantha*.

SECTION-B

5. What is *Musha*? Explain *Gostani Musha* and *Vruntaka Musha* in detail along with their diagrams. 10
6. What is *Yantra*? Explain *Dolayantra* and *Kacchhapa Yantra* in detail along with their diagram. 10

OR

Describe the *Grahya-Agrahya Lakshana*, *Dosha* and *Samanya Shodhana* of *Parada*.

7. Write short notes on any **Four** of the following : 20
 - A. *Gajaputa*
 - B. Concept of *Rasashala* as per ancient aspect.
 - C. *Paribhasha* of *Bhavana* and *Dhalana* along with their suitable examples.
 - D. Enumerate the *Dravyas* of *Maharasa*, *Uparasa* and *Sadharana Rasa Varga*.
 - E. Importance of *Putra*.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write the definition of *Rasashastra*.
 - B. *Dhanvantari Bhaga*
 - C. Write the definition of *Shodhana*.
 - D. *Mutrashtaka*
 - E. *Panchamritika*
 - F. *Ksharashtaka*

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025
FUNDAMENTALS OF AYURVEDA INCLUDING SWASTHAVRITTA

Date : 12/02/2025
Wednesday

Time : 10:00 A.M. - 01:00 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 Pratyaksha Pramana with illustrations. 10
2. Describe Samanya and Vishesha in detail. 10

OR

Describe Gunas along with examples.

3. Write short notes on any **Four** of the following : 20
 - A. Ashtang Ayurveda.
 - B. Kaarana Dravya.
 - C. Pancha Mahabhuta.
 - D. Karma.
 - E. Sushruta Samhita.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define the word Kaya.
 - B. Define Ayu.
 - C. Any four examples of Guru Guna.
 - D. What is Apta?
 - E. Any two examples of Sheshavata Anumana (शेषवत् अनुमान)
 - F. Timeline of Bhavaprakasha.

SECTION-B

5. Describe Revised National TB control programme. 10
6. Describe Sources, functions and diseases due to deficiency of water soluble vitamins. 10

OR

Explain Ahara-Parinamakara-Bhavas.

7. Write short notes on any **Four** of the following : 20
 - A. Health aspects of Factories Act, 1948(India).
 - B. Relation of occupations and Vega Dharana.
 - C. Carbohydrates.
 - D. Malaria Control Programme.
 - E. Grishma Rutucharya.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define nutrition.
 - B. Define Hansodaka.
 - C. Name any four plants useful for Danta-dhavana.
 - D. Name any four sources of fats.
 - E. Chemical hazards.
 - F. Full form of NVBDCP.

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

PHARMACEUTICAL CHEMISTRY - II (ORGANIC)

Date : 13/02/2025

Thursday

Time : 10:00 A.M. - 01:00 P.M.

Marks : 100

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

SECTION-A

1. Classify and explain different types of chemical bonds with examples. 10
2. Explain Hitler London theory for formation of molecules. 10

OR

Write preparation, properties and uses of Thioether.

3. Write short notes on any **Four** of the following : 20
 - A. Explain cis and trans isomers.
 - B. What is dipole moment? Explain in detail.
 - C. Describe any two methods for racemization
 - D. Explain H-bond.
 - E. Explain Enantiomer and Diastereomer.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Draw a structure of glycerol and urea
 - B. Give uses of thioalcohol
 - C. Give IUPAC name of $\text{CH}_3\text{CH}_3\text{CH}_2\text{COOH}$ and $\text{CH}_3\text{-NO}_2$
 - D. Define Stereochemistry
 - E. Define acid and base according to Arrhenius theory.
 - F. Give definition of optical active substance.

SECTION-B

5. What are Alkenes? Give Preparation, properties and uses of Alkene. 10
6. What is aromatic Nucleophilic substitution reaction? Explain benzyne mechanism as types of reaction. 10

OR

Explain different types of organic reaction.

7. Write short notes on any **Four** of the following : 20
 - A. Explain walden inversion reaction mechanism in detail.
 - B. What is bond fission? Explain.
 - C. Explain carbocation and carbanion.
 - D. Explain resonance in brief.
 - E. Write any two preparations and chemical reactions of aliphatic acid.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Give uses of alcohol.
 - B. Define α - β unsaturated carbonyl compounds with examples.
 - C. Explain electrophile with examples.
 - D. Draw energy profile diagram of $\text{S}_{\text{N}}1$ reaction mechanism
 - E. Give structure of Acrolein and Cinnamic acid
 - F. Define organic reaction mechanism.

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

PHARMACEUTICAL CHEMISTRY - I (INORGANIC)

Date : 14/02/2025

Time : 10:00 A.M. - 01:00 P.M.

Friday

Marks : 100

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

SECTION-A

1. Explain in detail: Acid base titration. 10
2. Define Limit test. Discuss limit test for Chloride with suitable example. 10

OR

Define buffer solution and explain Henderson-Hasselbach equation for buffer.

3. Write short notes on any **Four** of the following: 20
 - A. Write a short note on Ionization energy.
 - B. Write the theory of limit test for Heavy metals.
 - C. Discuss the applications of buffer solutions.
 - D. Explain Complexometric titration.
 - E. Describe the importance of limit in pharmaceutical preparation.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Enlist Transition metals.
 - B. Give role of Lead acetate pledger or papers in Gutzeit's test.
 - C. Define Quantitative analysis.
 - D. Give examples of buffer solution.
 - E. What is Secondary Standard?
 - F. Define Buffer capacity.

SECTION-B

5. Explain assay of Ammonium chloride 10
6. What is gravimetric analysis? Explain estimation of Aluminium from Alum. 10

OR

Discuss Sodium thiosulphate as an antioxidant.

7. Write short notes on any **Four** of the following: 20
 - A. Write properties of borax.
 - B. Describe different criteria to act as an antioxidant.
 - C. Discuss occurrence and properties of Copper (Cu).
 - D. Discuss advantages of Gravimetry.
 - E. Write method of preparation of borax.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write uses of antioxidant.
 - B. Give uses of Aluminium (Al).
 - C. What is mother liquor?
 - D. Draw structure of Hypophosphorous acid.
 - E. Define co-precipitation.
 - F. Draw structure of Borax.

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

SHARIRA (ANATOMY & PHYSIOLOGY)

Date : 15/02/2025

Saturday

Time : 10:00 A.M. - 01:00 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 Urinary System and explain the location, measurement and external features of kidney. 10
 2. Explain Garbhavakranti 10
- OR**
- Enlist the endocrine glands and briefly explain its functions.
3. Write short notes on any **Four** of the following: 20
 - A. Classification of Srotas
 - B. Enlist the components of animal cell with figure
 - C. Shadanga Sharira
 - D. Classification of bones
 - E. Corpus Callosum
 4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Number of Asthi according to Ayurveda.
 - B. Define Sharira
 - C. Define Koshtha
 - D. Define Indriya
 - E. Parts of Large intestine
 - F. Enlist the main parts of the brain.

SECTION-B

5. Explain Kapha dosha in detail. 10
 6. Describe Agni and modern concept of digestion 10
- OR**
- Describe Classification, Functions and importance of Upadhatu.
7. Write short notes on any **Four** of the following: 20
 - A. Write the Guna, Karma, Sthana and types of Pitta dosha
 - B. Types and functions of Snayu.
 - C. Write on White Blood Cell.
 - D. Shukra dhatu
 - E. Passive immunity
 8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define dosha
 - B. Define Plasma
 - C. Types of Ojus
 - D. Types of Jatharagni
 - E. Normal value of platelets in adult
 - F. Write the name of different Dhatuposhana Nyayas.

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

DISPENSING, COMMUNITY PHARMACY & HOSPITAL PHARMACY (DCH)

Date : 17/02/2025

Time : 10:00 A.M. - 01:00 P.M.

Monday

Marks : 100

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

SECTION-A

1. Define and classify incompatibility. Discuss any one incompatibility in details. 10
2. Write in detail on Posology. 10

OR

Explain principle and procedures adopted in dispensing Bhasma and external preparations.

3. Write short notes on any **Four** of the following : 20
 - A. Maintenance of drug store.
 - B. Difference between Asava and Arishtha.
 - C. Labelling of pharmaceutical products.
 - D. Principle and procedures of Basti.
 - E. Maintenance and Practice of Good hygienic conditions.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. What is the importance of age and sex written in prescription?
 - B. Define the term wholesale pharmacy.
 - C. Define the term emulsion.
 - D. Define Pharmacovigilance.
 - E. Define Patient counselling?
 - F. Define Idiosyncrasy?

SECTION-B

5. Write in detail on drug distribution system in hospital. 10
6. Write in detail on various techniques of Sterilization and procedures. 10

OR

Write in detail on processing of tablets.

7. Write short notes on any **Four** of the following : 20
 - A. Drug budget.
 - B. Write advantages – disadvantages of capsules.
 - C. Different types of surgical dressings.
 - D. Objectives and functions of Hospital pharmacy.
 - E. Write on drug information services.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define National health programme.
 - B. Define Avaleha-Churna
 - C. Define 'UDDDS'
 - D. Define 'First Aid'
 - E. Define 'Auto clave'
 - F. Define OPD - IPD

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

SANSKRIT

Date : 18/02/2025

Tuesday

Time : 10:00 A.M. - 12:00 P.M.

Marks : 50

Instructions: 1. Every question is compulsory.

2. Every question bears the marks written on the right side.

1. "लुब्धविप्रवृद्धव्याघ्र" कथा अपने शब्दों में लिखिए । 10

2. कारक कितने होते हैं ? सम्प्रदान और अपादान कारक को समझाईए। 10

OR

"माहेश्वर सूत्र" विषयक कथा लिखते हुए चौदह माहेश्वर सूत्र समझाईए। अच् और हल् प्रत्याहार लिखिए ।

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

A. संधि कीजिये (कोई चार)

1. महा + उत्सव: 2. मातृ + ए 3. तथा + अपि 4. उद् + ज्वल: 5. जगत + ईश:

B. "नदी" और "बालक" शब्द को सभी विभक्तियों में लिखो ।

C. निम्नलिखित धातु रूप लिखिए (कोई दो)

1. "हस्" धातु लट् लकार

2. "भू" धातु लृट् लकार

3. "गम्" धातु विधिलिङ् लकार

D. निम्नलिखित शब्दों का प्रयोग करते हुए वाक्य बनाओ (कोई चार)

1. वयम् 2. गच्छन्ति 3. कदा 4. अलम् 5. नमः

E. निम्नलिखित पद्य का भावार्थ कीजिये;

काव्यशास्त्रविनोदेन कालो गच्छति धीमताम् ।

व्यसनेन च मूर्खाणां निद्रया कलहेन वा ।।

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

A. अन्तःस्थ वर्ण कौनसे हैं ? नाम लिखो

B. भाषा की सबसे छोटी इकाई कौनसी है ?

C. क्रियापद किसे कहते हैं ?

D. संस्कृत भाषा की लिपि कौनसी है ?

E. करण कारक किसे कहते हैं ?

F. स्वर की परिभाषा लिखकर उसके प्रकार समझाईए।

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B. PHARM. (AYU.) FIRST YEAR EXAMINATION - February - 2025

ENGLISH

Date : 19/02/2025

Wednesday

Time : 10:00 A.M. - 12:00 P.M.

Marks : 50

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

Q.1 Think and rewrite in your own words on the given topics (any one). 10

Memorable events. Did you ever have a life-changing experience? You can write a perfect college essay about it.

OR

The importance of self-education. Students often face the need to study some subjects on their own. Self-education and its aspects can be an exciting topic to explore. Focus on honing individual skills and overcoming academic challenges.

Q.2 Fill in blanks with correct forms of verbs given in the brackets. 5

1. Someone _____ (knock) at the door.
2. My father _____ (leave) for Mumbai tomorrow.
3. When I _____ (go) to see him, he _____ (sleep).
4. He _____ (study) hard these days.
5. Our country _____ (make) steady progress under the present government.

Q3. Change the voice and write it again. 5

1. The judge announced the verdict.
2. The artist is sculpting the statue.
3. A beautiful poem was composed by the poet.
4. The cake will be baked by the chef.
5. Beautiful pictures are painted by the artist.

Q4. Fill in the blanks with the correct modal verb 5

(Might, should, must, may, would)

1. I ____ finish my homework before dinner. (obligation)
2. Neha ____ take this white umbrella; it looks like it will rain. (advice)
3. ____ I borrow your pencil for a moment? (permission)
4. She ____ be home by now, but I'm not sure. (possibility)
5. If I were you, I ____ apologize immediately. (suggestion)

Q5. Fill in the blanks with appropriate prepositions 5

1. This shop doesn't have the toys I was looking _____. (up/for)
2. The teacher divided the sweets _____ all the children. (between/among)
3. Bruce did not fare well _____ his examination. (in/at)
4. The dog is grateful _____ its owner. (to/for)
5. My brother's anniversary is _____ 5th November. (on/in)

Q6. (A) Select the similar word from the words given in the brackets 5
(Insane, abandon, exterior, impolite, embrace)

1. Leave
2. Mad
3. Outside
4. Rude
5. Hug

(B) Select the opposite word from the given brackets. 5
(Seldom, harmless, vertical, modern, modern)

1. Artificial
2. Ancient
3. Horizontal
4. Harmful
5. Frequent

[P.T.O.]

Q7 Add the correct prefix and suffix to the word in parentheses to complete the sentence.

4

1. If the children ____ (behave), they must go to bed early.
2. You can't ____ (do) what's already been done.
3. My son is much more ____ (responsible) than my daughter. He never does his homework.
4. Jane is the most ____ (grace) orator in the group.

Q.8 Do the precise writing for both the paragraphs.

6

1. Artificial intelligence is becoming increasingly important in a variety of industries, from healthcare to finance to manufacturing. This is due to the ability of AI systems to analyze large amounts of data quickly and accurately, identify patterns and trends, and make predictions based on that information. As these systems continue to evolve and improve, they are likely to have a significant impact on the way many industries operate, potentially leading to increased efficiency, cost savings, and improved outcomes for consumers.
2. Climate change is one of the most pressing issues of our time. The Earth's climate is changing due to human activity, particularly the burning of fossil fuels and the release of greenhouse gases into the atmosphere. This is causing a range of negative effects, including rising sea levels, more frequent and severe natural disasters, and changes in weather patterns. In order to address this issue, it is essential that we take steps to reduce our carbon emissions and transition to cleaner forms of energy.
