

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024
FUNDAMENTALS OF AYURVEDA INCLUDING SWASTHAVRITTA

Date : 21/08/2024

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

Wednesday

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 of Ayu. Explain about Ashtang Ayurveda. 10
2. Define the word Padartha. Write classification of Karan dravya and karya dravya. 10

OR

Explain about Laghutrayi.

3. Write short notes on any **Four** of the following : 20
A. Charak Samhita
B. Yukti Pramana.
C. Sharira Gunas
D. Concept of Samanya
E. Concept of Samvaya.

4. Answer any **Five** of the following :(two to three sentences) 10
A. Write synonyms of Ayu.
B. Enlist Panchatanmatra.
C. Write definition of Aaptopadesh.
D. What is Panch avayava?
E. Write definition of Dravya.
F. Enlist paradi gunas.

SECTION-B

5. Write about Varsha rutucharya. 10
6. Describe about Adharniya vegas. 10

OR

Explain about factory act.

7. Write short notes on any **Four** of the following : 20
A. Sources and functions of Carbohydrates.
B. Occupational health hazards.
C. Sadvrita
D. National Tuberculosis Control Programme.
E. Dharniya Vega
8. Answer any **Five** of the following :(two to three sentences) 10
A. Write the definition of Swastha.
B. Full form NRHM.
C. Define the word Aahar.
D. Write benefits of Abhyanga.
E. Write sources of Proteins.
F. Names of Industrial health hazards.

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024

PHARMACEUTICAL CHEMISTRY - II (ORGANIC)

Date : 22/08/2024

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

Thursday

Marks : 100

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

SECTION-A

1. Define thiocompounds and explain Thioalcohol. 10
 2. Answer any **One** out of two questions. 10
Draw IUPAC name of following structure. (any five)
A. 1) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{COOH}$ 2) CH_3CHO 3) $\text{CH}_3\text{CH}_2\text{OH}$
4) $\text{CH}_3\text{CH}_2\text{CN}$ 5) $\text{CH}_3\text{CH}_2\text{COCH}_3$ 6) HCOOCH_3
- OR**
- B. Explain Racemic mixture and its modification.
 3. Write short notes on any **Four** of the following : 20
A. H-bond and its effect.
B. R-S configuration.
C. Organic acid and base
D. Enantiomer and Distereomer.
E. Give any two methods of preparation and reactions of Thioether.
 4. Answer any **Five** of the following :(two to three sentences) 10
A. Define Electromeric effect
B. Explain principle quantum no.
C. Define Asymmetric carbon.
D. Explain Mesocompound.
E. Give uses of thioether.
F. Define Dipole moment.

SECTION-B

5. Define nucleophilic substitution reaction and explain SN_2 reaction. 10
6. Answer any **One** out of two questions. 10
A Give preparations and properties of Alkene.

OR

B Define α - β unsaturated carbonyl compound and explain methods of preparation.
7. Write short notes on any **Four** of the following : 20
A. Bond fission
B. Give any two preparations and chemical reactions of Aldehyde.
C. Explain E_1 reaction.
D. How to distinguish 1° , 2° and 3° alcohol? Explain.
E. Explain Electrophile and Nucleophile.
8. Answer any **Five** of the following :(two to three sentences) 10
A. Explain addition reaction with example.
B. Define Resonance.
C. Give uses of Aromatic acid.
D. Define Carbonium ion.
E. Draw energy profile diagram of SN_1 reaction.
F. Draw structure of Glycerol and Resorcinol.

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024

RASASHASTRA AND BHAISHAJYA KALPANA - I(AYURVEDIC PHARMACEUTICS)

Date : 20/08/2024

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. What is *Aushadha*? Explain the basic principles of *Aushadha Nirmana*. 10
2. Enumerate the *Panchavidha Kashaya Kalpana*. Explain *Swarasa Kalpana* in Detail. 10

OR

Describe *Mana Paribhasha* in detail.

3. Write short notes on any **Four** of the following : 20
 - A. *Pramathya Kalpana*
 - B. *Shadanga Paniya*
 - C. *Churnodaka*
 - D. Collection of raw materials
 - E. Importance of *Saveeryata Avadhi*.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Write the dose of *Kalka Kalpana*.
 - B. Write the ingredients of *Triphala Kwatha*.
 - C. Write the therapeutic use of *Arjuna Kshirapaka*.
 - D. Write the therapeutic use of *Dhanyakadi Hima*.
 - E. Write the *Saveeryata Avadhi* of *Taila Kalpana*.
 - F. Which season is best for collection of *Virechana Dravya*?

SECTION-B

5. Describe the *Grahya-Agrahya Lakshana, Dosha* and *Samanya Shodhana* of *Parada*. 10
6. What is *Putra*? Explain *Gajaputa* and *Bhanda Putra* in detail along with their diagrams. 10

OR

What is *Yantra*? Explain *Valuka Yantra* and *Damaru Yantra* in detail along with their diagrams.

7. Write short notes on any **Four** of the following : 20
 - A. *Gostani Moosha*
 - B. *Vruntaka Moosha*
 - C. *Kachchhapa Yantra*
 - D. Explain *Nirvapa* and *Dhalana* terminology along with their examples.
 - E. Enumerate *Dravyas* of *Dhatu* , *Ratna* and *Upratna Varga*.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. *Mitrapanchaka*.
 - B. *Rudrabhaga*
 - C. Who is the author of *Rasatarangini*?
 - D. Describe the *Shodhana* process of *Hingula*.
 - E. Write four synonyms of *Parada*.
 - F. Write the definition of *Marana*.

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024

PHARMACEUTICAL CHEMISTRY - I (INORGANIC)

Date : 23/08/2024

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. What do you mean by redox titration? Discuss different types of redox titration. 10
2. Define buffer solution and classify them. Write a role of buffer in pharmaceutical fields. 10

OR

Describe limit test for metallic load in pharmaceuticals in details.

3. Write short notes on any **Four** of the following: 20
 - A. Write a short note on Ionization energy.
 - B. Give difference between primary and secondary standard substances.
 - C. Describe the limit test for chloride.
 - D. Discuss the factors affecting selection of Pharmaceutical buffers and name any two physiological buffers.
 - E. Write a note Acid - Base titration.

4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Draw the diagram of Gutzeit's test apparatus.
 - B. Which elements are known as alkali metals?
 - C. Define Standardization.
 - D. What is Buffer capacity.
 - E. Define Iodometry.
 - F. Why citric acid is used in limit test for Iron?

SECTION-B

5. Explain Assay and uses of ammonium chloride. 10
6. Explain Hypophosphorous acid as an antioxidant. 10

OR

Explain Precipitation, Filtration, Washing of precipitate in Gravimetric analysis.

7. Write short notes on any **Four** of the following: 20
 - A. Give occurrence, properties, and uses of Calcium (Ca).
 - B. Write properties of Borax.
 - C. Write different criteria to act as an antioxidant.
 - D. Discuss differences between Volumetric analysis and Gravimetric analysis.
 - E. Explain estimation of Aluminum from Alum.

8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Give occurrence of Copper (Cu).
 - B. Give the uses of antioxidant.
 - C. Define Coagulation.
 - D. Give uses of Gold (Au)
 - E. What is Post precipitation?
 - F. Write uses of Borax.

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024
SHARIRA (ANATOMY & PHYSIOLOGY)

Date : 24/08/2024

Saturday

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

Marks : 100

Instructions : All the questions are compulsory.

SECTION-A

1. Explain Garbhavakranti. 10
2. Write the introduction of Endocrine glands & describe the function of Pituitary gland. 10

OR

Explain Srotas

3. Write short notes on any **Four** of the following : 20
- A. Koshta and Koshtanga
B. Uterus
C. External features of Kidney
D. Draw the neat labelled diagram of Cell
E. Stomach

4. Answer any **Five** of the following :(two to three sentences) 10
- A. Define Shaarira
B. Location of Suprarenal gland
C. Enlist the Carpal bones
D. Name the Jnanendriya
E. Define Ashaya
F. Enlist the organs of Respiratory system

SECTION-B

5. What is Vyadhikshamatwa? Write the types of Vyadhikshamatwa & relation with ojus 10
6. Describe the physiological importance of Agni 10

OR

Explain Kapha Dosha in detail.

7. Write short notes on any **Four** of the following : 20
- A. Brief introduction of dhatu.
B. Functions of blood.
C. Ojo vikriti.
D. Definition and characteristics of Vishamagni
E. Functions of endocrine system.

8. Answer any **Five** of the following :(two to three sentences) 10
- A. Define Immunity
B. Normal value of hemoglobin in adult male
C. Functions of Vyana vayu
D. Define upadhatu
E. Location of Sadhaka Pitta
F. Name the dhatu poshana nyaya

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024
DISPENSING, COMMUNITY PHARMACY & HOSPITAL PHARMACY (DCH)

Date : 27/08/2024

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. Define posology and write any three factors affecting posology in detail.	10
2. Write in details on parts of prescription.	10
OR	
Write in details on handling of prescription.	
3. Write short notes on any Four of the following :	20
A. Physical incompatibility.	
B. Benefits of keeping clean environment in pharmacy.	
C. Packaging of pharmaceutical products.	
D. Information required for labelling.	
E. Maintenance of drug store.	
4. Define any Five of the following :(two to three sentences)	10
A. Kwatha	
B. Suppositories	
C. Emulsion	
D. Basti	
E. Asava-Arishta	
F. Pharmacovigilence.	
SECTION-B	
5. Define and classify hospital. Enumerate the various functions of hospitals.	10
6. Write in details on drug distribution system for inpatients.	10
OR	
Write in details on methods of sterilisations.	
7. Write short notes on any Four of the following :	20
A. Objectives and functions of hospital pharmacy.	
B. Processing of tablets.	
C. Drug budget.	
D. Surgical dressings.	
E. Drug information services.	
8. Define any Five of the following :(two to three sentences)	10
A. Capsules.	
B. Tincture.	
C. Syrup.	
D. Avaleha.	
E. Churna.	
F. Vati.	

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024

SANSKRIT

Date : 28/08/2024

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

Wednesday

Marks : 50

Instructions: 1. Every question is compulsory.

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

1. विभक्तियों के नाम लिखकर सप्तमी विभक्ति सविस्तार समझाईए । 10

2. "जरद्वगीध" कथाको अपने शब्दों में लिखकर बोध लिखिए । 10

OR

'नदी' एवं 'मातृ' शब्द का सभी विभक्तियों में रूप लिखिए ।

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

A. १.लता + इव २.पञ्च + इन्द्रियाणि ३. उप + इन्द्रः ४. रामस् + शेते ५. धनुस् + ठङ्कारः

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

१. पुरतः २. उभयतः ३. नमः ४. बहिः ५. विना

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

(१) रामात् (२) लतयाः (३) फलस्य (४) रामैः

D. निम्नलिखित धातु रूप लिखिए। (कोई दो)

१. "क्रिड्" धातु लट् लकार ।

२. "गम्" धातु लृट् लकार ।

३. "पिब्" धातु लृट् लकार ।

E. 'रमा' अथवा 'भानु' शब्द का रूप सभी विभक्तियों में लिखिए ।

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

A. प्रथम तीन माहेश्वरसूत्र लिखिए ।

B. 'पठ्' धातु का प्रयोग करके दो वाक्य बनाईए ।

C. पित्रा और पितुः नाम रूपों में कौन सी विभक्ति होती है ?

D. 'देवाय नमः ।' - वाक्य में कौन सी विभक्ति है ?

E. 'अव्यय' शब्द की परिभाषा लिखिए ।

F. क्रियापद किसे कहते हैं ?

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2024

ENGLISH

Date : 29/08/2024

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

Thursday

Marks : 50

Instructions: 1. Every question is compulsory.

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

1. Think and Write in your own words on the following topic (any one): 10

A. Pretend you woke up one day and there were no rules. People could suddenly do whatever they wanted! Explain what the world would be like. Use your imagination!

OR

B. Most high level jobs are done by men. Should the government encourage a certain percentage of these jobs to be reserved for women?

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

A. Jane ____ (wait) for me when I ____ (arrive).

B. 'What ____ (you/do) this time yesterday?' ' I was asleep'.

C. When I was young, I ____ (want) to be a bus driver.

D. We were in the very difficult position. We ____ (not/know) what to do.

E. When I'm tired, I enjoy ____ (watch) television. It's relaxing.

3. Rewrite the sentences changing its voice. Use the same tenses. 5

A. Do you want to buy this house?

B. We have to do our duty.

C. It has to be done.

D. It is time to have the roll call.

E. You have to see it to believe it.

4. Use modal verbs where possible. If a modal verb can't be used with a certain tense, use its substitute. (will be, would, could, should not, need to) 5

A. He ____ be here by now.

B. I ____ swim quite well when I was younger.

C. You ____ blame yourself for this.

D. You ____ have discussed it with me first.

E. ____ you open the window please?

3. Fill in the spaces with suitable prepositions.

5

A. Are you fond ____ listing ____ music? (of / off / to)

B. There is no love lost _____ the two brothers. (between / among)

C. _____ painting, he is fond of poetry. (Beside / Besides)

D. The hunter killed lion ____ a gun. (with / by)

E. They have entered _____ a new agreement. (in / into)

4. Give synonyms of the following words:

5

A. kill B. help C. match D. fast E. joke

5. Give antonyms of the following words:

5

A. accept B. break C. easy D. catch E. dig

6. Use the prefix or suffix to the given word provided in the bracket in its appropriate form.

3

A. You can't just believe it. The plot was _____ (believable)

B. I saw her just a few days ago, still, I miss her. It looks it she just _____ (appeared)

C. I am sorry, I didn't mean to hurt you. I must have _____ you. (Understood)

7. Precise writing:

Reduce the text one third and give suitable heading.

7

We all know what we mean by a "good" man. The ideally good man does not drink or smoke, avoids bad language, converses in the presence of men only exactly as he would if there were ladies present, attends church regularly and holds the correct opinion on all subjects. He has a wholesome horror of wrong-doing and realizes that it is our painful duty to castigate sin. He has a still greater horror of wrong thinking, and considers it the business of the authorities to safeguard the young against those who question the wisdom of the views generally accepted by middle-aged successful citizens. Apart from his professional duties, at which he is assiduous, he spends much time in good works: he may encourage patriotism and military training; he may promote industry, sobriety and virtue among wage earners and their children by seeing to it that failures in these respects receive due punishment; he may be a trustee of a university and prevent an ill-judged respect for learning from allowing the employment of professors with subversive ideas. Above all, of course, his "morals" in the narrow sense must be irreproachable. (189 words)
