

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : August-2022

Sanskrit

Date: 03-09-2022
Saturday

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

Instructions : All the questions are compulsory.

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

2. "जरह्वगीध" कथा को अपने शब्दों में लिखकर बोध लिखिए । 10

OR

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

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

- A. १. मम + इव २. पञ्च + इन्द्रियाणि ३. महा + उत्सवः
४. गंगा + उदकम् ५. हिम + आलय ।
- B. निम्नलिखित अव्यय का अर्थ बताते हुए वाक्यप्रयोग कीजिए (कोई चार) ।
१. पुरतः २. उभयतः ३. सह ४. बहिः ५. विना ।
- C. निम्नलिखित नाम रूपों की पहचान दीजिए (कोई दो) ।
(१) रामेण (२) लतयाः (३) फलस्य (४) रामेः
- D. निम्नलिखित धातु रूप लिखिए (कोई दो) ।
१. "गच्छ्" धातु लट् लकार ।
२. "पठ्" धातु लोट् लकार ।
३. "पिब्" धातु लृट् लकार ।
- E. 'रमा' अथवा 'भानु' शब्द को सभी विभक्तियों में लिखो ।

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

- A. प्रथम तीन माहेश्वर सूत्र लिखिए ।
B. 'वद्' धातु का प्रयोग करके दो वाक्य बनाईए ।
C. पित्रा और पितुः नाम रूपों में कौन सी विभक्ति होती है ?
D. 'श्री रामाय नमः' - वाक्य में कौन सी विभक्ति है ?
E. 'अव्यय' शब्द की परिभाषा लिखिए ।
F. ह्रस्व स्वर कौन से हैं ?

Instructions: 1. Every question is compulsory.

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

SECTION-A

1. Define *Panchavidha Kashaya Kalpana*. Explain *Kwatha Kalpana* in detail with one suitable example. 10

2. Define the term Bhaishajya Kalpana. Explain the fundamental principles of Bhaishajya Kalpana in detail. 10

OR

Write in detail about collection, storage & preservation of raw material.

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

A. *Mantha Kalpana*.

B. *Kshirapaka Kalpana*.

C. *Aushadha Siddha Paniya*.

D. *Laksha Rasa*.

E. Importance of *Maana*.

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

A. Write the ingredients of *Dashamoola Kwatha*.

B. Why should *Kwatha* not be prepared by covering the vessel with lid?

C. Write the *Saveeryata Avadhi* of *Avaleha Kalpana*.

D. Write the dose of *Sagni Siddha Swarasa*.

E. Write the dose and use of *Tandulodaka*.

F. 1 Pala =g, 1 Ratti =mg.

SECTION-B

5. What is *Yantra*? Explain *Dolayantra* and *Damaru Yantra* in detail along with their diagrams. 10

6. Define the term Rasashastra. Explain the importance of Rasashastra 10

OR

Write the definition and synonym of *Moosha*. Explain *Vrutaka Moosha* and *Gostani Moosha* in detail.

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

A. *Rasashala Nirmana* as per ancient aspect.

B. *Gajaputa*.

C. *Parada Samanya Shodhana*.

D. Enumerate the *Dravyas* of *Maharasa*, *Uparasa* and *Shadharana Rasa*.

E. *Parada Gati*.

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

A. *Dhanvantari Bhaga*.

B. *Dravaka Varga*.

C. *Panchamritika*.

D. Definition of *Dhalana*.

E. Definition of *Marana*.

F. Definition of *Shodhana*.

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

SECTION-A		
1.	Write in detail on handling of prescription.	10
2.	Write in details on incompatibilities in prescription.	10
OR		
	Write in details on posology.	
3.	Write short notes on any Four of the following :	20
	A. Parts of prescription.	
	B. Procedure in dispensing of Kwatha and Churna.	
	C. Labelling of pharmaceutical products.	
	D. Types of packaging.	
	E. Drug store.	
4.	Define any Five of the following :(two to three sentences)	10
	A. Counselling patients about prescribed medicines.	
	B. Basti	
	C. Difference between Asava and Arishta	
	D. Gutika	
	E. Retail pharmacy	
	F. Wholesale pharmacy	
SECTION-B		
5.	Define hospital pharmacy. Write in detail on its objectives and functions.	10
6.	Write in details on advantages and disadvantages of floor stock system.	10
OR		
	Write in details on UDDDS.	
7.	Write short notes on any Four of the following :	20
	A. Objectives and functions of hospital.	
	B. Processing of capsules.	
	C. Physical methods of sterilisation.	
	D. Drug budget	
	E. Drug information records.	
8.	Define any Five of the following :(two to three sentences)	10
	A. OPD-IPD	
	B. Tablet	
	C. Syrup.	
	D. Surgical dressing	
	E. National health programme.	
	F. Drug report.	

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : August-2022

Fundamentals Of Ayurveda Including Swasthavritta

Date: 29-08-2022
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 the word Dravya. Write its classification and importance. 10

2. Explain about Aptopadeshi pramana in detail. 10

OR

What is Guna ? Explain classification and importance of Guna.

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

- A. Sushrut samhita
- B. Sharangdhar Samhita
- C. Anumana Pramana
- D. Cocept of Vishesh.
- E. Concept of Pancha mahabhuta.

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

- A. Write definition of Karma
- B. Enlist Karan dravyas.
- C. Write definition of pratyaksha praman.
- D. What is Ashtang Ayurveda ?
- E. Aim and object of Ayurveda.
- F. Write definition of Samvaya.

SECTION-B

5. Explain about Varsha rutu charya. 10

6. What is National health programme? Write about NRHM in detail. 10

OR

Define the word Ahara. Write about classification, sources and functions of Vitamins.

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

- A. National vector born diseases control programme.
- B. Importance of Dharniya vega in general health
- C. Sadvrita
- D. Industrial health hazards.
- E. Sources and functions of fats.

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

- A. Enlist the names of six seasons.
- B. Define the word Swatha.
- C. Write the names of Adharniya Vega.
- D. Full form of AIDS
- E. What is Viruddha Ahara ?
- F. Write benefits of Anjan.

Instructions : All the questions are compulsory.

SECTION-A

1. Write the numbers and types of bones according to ayurveda & modern science. 10

2. Describe the structure of tongue according to modern science. 10

Explain the Masanumasika garbha vridhhi according to ayurveda.

OR

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

- A. Shadanga Sharira
- B. Types of Epithelial tissue.
- C. Importance of srotas.
- D. Garbhavakranti.
- E. Characteristics of shuddha shukra and artava.

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

- A. Enumerate the types of tissue.
- B. Functions of lyzosome.
- C. Enlist the organs of male reproductive system.
- D. What is 'Dohrudini'
- E. Enlist main parts of the brain
- F. Parts of small intestine

SECTION-B

5. Write on Metabolism in detail. 10

6. Explain 'Immunity'. 10

OR

Explain 'Dhatumala' in detail.

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

- A. Dhatvagni.
- B. Ojus.
- C. Functions of blood.
- D. Location and function of Prana and Udana vayu.
- E. Types, Sthana and Guna of pitta dosha.

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

- A. Location of Apana vayu
- B. Functions of Kandara
- C. Types of Jatharagni
- D. Functions of Gallbladder
- E. Avastha paka
- F. Types of Kapha

Pharmaceutical Chemistry (Inorganic)

Date: 01-09-2022
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. Describe earlier efforts classifying elements. State Mendeleeff's periodic law and its salient feature. 10

2. Explain limit test for Heavy metals. 10

OR

Define pH. Derive Henderson-Hasselbalch equation.

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

- A. Write a note on Electro negativity.
- B. Discuss limit test for arsenic.
- C. Explain Non-aqueous titration.
- D. Discuss Fajan's method in detail
- E. Discuss the role of buffer in pharmacy fields.

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

- A. Define Ionization energy.
- B. What do you mean by impurity?
- C. Define Indicator.
- D. Give role of Lead acetate pledger or papers in Gutzeit's test.
- E. Write types of titrations.
- F. Give the classification of Buffer

SECTION-B

5. Discuss method of preparations, and properties of ammonium chloride. 10

6. Define antioxidant. What are different criteria required to act as an antioxidant. 10

OR

What is gravimetric analysis? Explain estimation of Aluminum from Alum.

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

- A. Explain occurrence, properties, and uses of Iron
- B. Explain Assay of Borax.
- C. Explain Sodium thiosulphate as an antioxidant.
- D. Discuss different reactions of lead and sodium
- E. Discuss the limitations of gravimetric analysis.

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

- A. Give uses of Aluminum
- B. Write properties of borax
- C. Define Antioxidant
- D. Give uses of Mercury
- E. Give the difference between Gravimetric analysis and Volumetric analysis.
- F. Give the application of gravimetric analysis.

Pharmaceutical Chemistry (Organic)

Date: 02-09-2022
Friday

Time: 09:30 A.M. to 12:30 P.M.
Marks: 100

Instructions : All the questions are compulsory.

SECTION-A

1. Define and classify Thiocompounds. Explain Thioether. 10

2. Answer any one out of two questions. 10

Write IUPAC name of following. (any five)

- 1) $\text{CH}_3\text{CHCH}_2\text{OH}$ 2) H_2NCONH_2 3) $\text{CH}_3\overset{\text{OH}}{\text{C}}\text{HCH}_3$
 4) $\text{CH}_3\text{OCH}_2\text{CH}_3$ 5) HCHO 6) H_3CCOOH

OR

Explain V.B. theory. Explain formation of H_2 molecule and give its limitations.

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

- A. Hydrogen bond.
 B. Preparation and chemical reaction of Thiophene.
 C. Inductive effect.
 D. Geometric isomerism.
 E. R-S configuration.

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

- A. Explain Enantiomer.
 B. Write uses of Thiophene.
 C. Define Dipole moment.
 D. Define Stereochemistry.
 E. Explain Arrhenius acid and base.
 F. Explain Staggered and Eclipsed confirmation.

SECTION-B

5. Explain different types of reactions. 10

6. Answer any one out of two questions. 10

Give preparation, properties and uses of Aromatic acid.

OR

Define Nucleophilic substitution reaction. Explain SN_2 reaction in detail.

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

- A. Resonance.
 B. Chemical reactions of α - β unsaturated carbonyl compound.
 C. Benzyl mechanism.
 D. E_1 reaction.
 E. Preparation and uses of Ketone.

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

- A. Draw energy profile diagram of SN_1 reaction.
 B. Explain pyrolysis.
 C. Write difference between Homolytic and Heterolytic fission.
 D. Give structure of Crotonaldehyde and Cinnamaldehyde.
 E. Why alkenes known as olefins?
 F. Define Carbonium ion.

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : August-2022

English

Date: 05-09-2022
Monday

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

Instructions : All the questions are compulsory.

1. Choose the correct form of the verb from the given brackets. 05
 - A. The servant _____ milk in the evening. (brings, bring, brought)
 - B. The patient _____ before the doctor arrived. (is die, has died, been died)
 - C. One of my friends _____ to Zambia recently. (go, has gone, went)
 - D. I will call you when the guests _____. (arrive, arrives, arrived)
 - E. He _____ a novel since October, and he is about to finish it. (has been writing, have been written, wrote)
2. Change the following active sentences into passive sentences. 05
 - A. I did not beat her.
 - B. I will never forget this experience.
 - C. My mother made a cake for me.
 - D. The tiger was chasing the deer.
 - E. Did she do her duty ?
3. Choose the correct Modal verb from those given in the brackets. 05
 - A. This is hospital you _____ smoke here. (mustn't, may not, needn't)
 - B. I _____ speak Arabic fluently when I was a child and we lived in Morocco. (might, could, can)
 - C. He _____ prefer to get some rest. (may, should)
 - D. People _____ walk on the grass laying in the garden. (couldn't, needn't, mustn't)
 - E. _____ you stand on your head for more fluent. (can, would, may)
4. Choose the correct form of verbs from those give in the brackets. 05
 - A. In my last night party, she _____ (bring\ brought) some chocolates.
 - B. They _____ (has\had)\already _____ (arrive\ arrived) when we reached there.
 - C. She ran with quick steps to the house when it _____ (started\starting) raining.
 - D. Sushila _____ (live\lives) with her sister.
 - E. She _____ (is getting\was getting) married next month.
5. Find out appropriate synonyms for underline words from the given in the brackets. 04
 - (a) The monetarist case has been vividly expressed by Milton Friedman.
 - (a) Issue (b) argument (c) example (d) oddment
 - (b) We should delete some parts of this article.
 - (a) Omit (b) rewrite (c) change (d) include
 - (c) The warranty guarantees that all defective parts will be replaced without any charge.
 - (a) Lost (b) imperfect (c) unused (d) dorsal
 - (d) The cost of imported products can be increased with a special charge called a tariff.
 - (a) Rate (b) debt (c) fee (d) currency
5. B. Find out appropriate antonyms for underline words from the given in the brackets. 04
 - (a) Raju had apparently changed his mind.
 - (a) seemingly (b) apart from (c) confused (d) appear
 - (b) The officer exaggerated the damage caused by the rowdies.
 - (a) underwrote (b) condemned (c) ignored (d) underestimated
 - (c) The speaker was unable to pacify the crowd.
 - (a) excite (b) antagonize (c) threaten (d) challenge
 - (d) His attitude to poor people is deplorable.
 - (a) commendable (b) miserable (c) equitable (d) desirable

6. Write the appropriate phrasal verbs from given list. 07
[Brought up, take off, try on, switch on, fill in, get on, look for]

- A. She _____ the orphan as her own child.
- B. Quick! _____ the bus. It's ready to leave.
- C. I don't know where my book is. I have to _____ it.
- D. It's dark inside. Can you _____ the light, please?
- E. _____ the form please.
- F. I need some new clothes. Why don't you _____ these jeans?
- G. It's warm inside. _____ your coat.

7. Write an essay in about 200 words on the following topic. 10
How dose social media change relationships between parents and children ?

OR

7. **Precis writing: reduce the text to one third and give appropriate title.** 10

It is observed that in schools offering co-education, there is often a power struggle between boys and girls. Even teachers become a part of this when they compare the two and pass gender-biased judgments. Such a treatment is harmful to the overall well-being of the students, as their self-esteem is damaged by receiving undue criticism from teachers.

According to research, boys are often neglected in co-ed schools. Right from their childhood, they are expected to be tougher, stronger, and better than the girls. This is a disadvantage for both genders. When girls are not challenged enough, it makes them depressed and dependent. On the other hand, boys are challenged to such an extent that their childhood and innocence are lost. (121 words)

8. **Comprehension: Read the following paragraph carefully and answer the given questions at below:** 05
Many of us believe that 'small' means 'insignificant'. We believe that small actions and choices do not have much impact on our lives. We think that it is only the big things, the big actions and the big decisions that really count. But when you look at the lives of all great people, you will see that they built their character through small decisions, small choices and small actions that they performed every day. They transformed their lives through step-by-step or day-by-day approach. They nurtured and nourished their good habits and chipped away their bad habits, one by one. It was their small day-to-day decisions that added up to make tremendous difference in the long run. Indeed, in matters of personal growth and character building, there is no such thing as an overnight success.

Gandhi understood this organic process and used this universal law of nature to his benefit. Gandhi grew in small ways, in his day-to-day affairs. He did not wake up one day and find himself to be the 'Mahatma'. In fact, there was nothing much in his early life that showed signs of greatness. But from his mid-twenties onwards, he deliberately and consistently attempted to change himself, reform himself and grow in some small way every day. Day by day, hour by hour, he risked failure, experimented and learnt from mistakes. In small as well as large situations, he took up the responsibility rather than avoiding it. People have always marvelled at the effortless way in which Gandhi could accomplish the most difficult tasks. He displayed a great deal of self-mastery and discipline which was amazing. These things did not come easily to him. Years of practice and disciplined training went into making his success possible. Very few saw his struggles, fears, doubts and anxieties, or his inner efforts to overcome them. They only saw the victory, but not the struggle.

This is a common factor in the lives of all great people: they exercise their freedoms and choices in small ways that make great impact on their lives and their environment. Each of their small decisions and actions, add up to have a profound impact in the long run. By understanding this principle, we can move forward, with confidence, in the direction of our dreams. Often when our 'ideal goal' looks too far from us, we become easily discouraged, disheartened and pessimistic. However, when we choose to grow in small ways, by taking small steps one at a time, our achievement becomes easy.

Q. Answer the questions briefly:

1. How do small actions and choices impact our lives?
2. Describe organic process of growth through an example from the text.
3. What according to the author is the 'universal law of nature'?
4. How did Gandhi accomplish the most difficult tasks effortlessly?
5. Give suitable title.
