

# INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - December - 2023

## ENGLISH

Date : 13/12/2023

Time : 09:30 A.M. - 11:30 A.M.

Wednesday

Marks : 50

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

- 1 Choose the correct form of the verb from the given brackets. 05
  - i. Every Monday, Sally \_\_\_\_\_ (drives/ driving/ drove) her kids to football practice.
  - ii. She ran with quick steps to the house when it \_\_\_\_\_ (start/ started/ had started)
  - iii. It was so quiet you \_\_\_\_\_ (can/ could/ would) hear a pin drop.
  - iv. Suhana \_\_\_\_\_ (lives/ is living/ has lived) with her sister.
  - v. I \_\_\_\_\_ (discussed/ have discussed/ had discussed) this with him when he came here the other day.
- 2 Change the voice. 05
  - i. The black bike is being repaired at the moment.
  - ii. A letter was written to her some days ago.
  - iii. We have lost our keys.
  - iv. Cricket is played in England.
  - v. They were singing a song.
- 3 Choose the correct Modal verb from those given in the brackets. 05
  - i. Mitali \_\_\_\_\_ be here at my home soon. (would, should, could)
  - ii. \_\_\_\_\_ you mind if I am eating this? (will, would, may)
  - iii. They \_\_\_\_\_ not get those sits. (may, can, will)
  - iv. \_\_\_\_\_ I borrow your pen? (will, can, would)
  - v. She \_\_\_\_\_ be about forty. (must, will, can)
- 4 Choose the correct form of verbs from those give in the brackets. 05
  - i. If a sinner \_\_\_\_\_ (feels\ feel) penitence, he can be forgiven.
  - ii. It \_\_\_\_\_ (was\is) so quite you could hear a pin drop.
  - iii. He \_\_\_\_\_ (has worked\had worked) in this office for ten years now.
  - iv. It \_\_\_\_\_ (was raining\has been raining) since last night.
  - v. Look! Those bees (are buzzing\ is buzzing) round the flowers.
- 5 A. Find out appropriate synonyms for underline words from the given in the brackets. 04
  - i. He seldom misses a day of work.  
a. Sometimes b. never c. rarely d. often
  - ii. He admits his mistake at last.  
a. confess b. lively c. too d. quantity
  - iii. Cheers rang out from the assembly.  
a. gathering b. inquire c. conduct d. accused
  - iv. If you're brave enough, you can see him when he's back.  
a. Foot b. daring c. wide d. cautious
5. B. Find out appropriate antonyms for underline words from the given in the brackets. 04
  - i. A deficit budget is harmful for the nation's economy.  
a. Profit b. bonus c. benefit d. surplus
  - ii. The stoniest of hearts must have cursed the gift.  
a. Blessed b. refused c. blamed d. scolded
  - iii. Brahma is the creator and Siva is the:  
a. Maker b. destroyer c. protector d. preserver
  - iv. People understand speech in the context of their accumulated experience.  
a. Gather b. dissipated c. partial d. none of the above

[P.T.O.]

[look after, broke, ran out of, turn off, put off, look forward to, get on with ]

- i. We both \_\_\_\_\_ meeting your new girlfriend.
- ii. I don't \_\_\_\_\_ my new science teacher.
- iii. Could you \_\_\_\_\_ the music while I'm on the phone?
- iv. Our boss \_\_\_\_\_ our meeting until next week.
- v. John \_\_\_\_\_ his leg at the baseball game.
- vi. My neighbour \_\_\_\_\_ eggs yesterday.
- vii. Would you \_\_\_\_\_ my dog for me this weekend?

7. Write an essay in about 200 words on the following topic.

10

- Challenges you have faced during the pandemic
- Using a bicycle instead of a car improves your health and lowers your environmental impact
- Does social media improve people's communication skills?

OR

7. Precise writing: reduce the text to one third and give appropriate title.

10

Religion is based I think, primarily and mainly on fear. It is partly the terror of the unknown and partly the wish to feel that you have a kind of elder brother who will stand by in all your troubles and disputes. Fear is the basis of the whole thing-fear of the mysterious, fear of defeat, fear of death. Fear is the parent of cruelty and therefore, it is no wonder if cruelty and religion go hand in hand.

It is because fear is at the basis of those two things in this world that we can now be a little to understand things and master them with the help of Science, which has forced its ways steps by step against the Christian religion: against the churches, and against the opposition of all the old precepts. Science can help us to get over this grave fear in which mankind has lived for so many generations. Science can teach us no longer to invent allies in the sky, but rather to look to our own efforts here below to make this world a fit place to live in. (186 words)

8. Comprehension: Read the following paragraph carefully and answer the given questions at below: 05

The 543 elected MPs will be elected from single-member constituencies using first-past-the-post voting. The President of India nominates an additional two members from the Anglo-Indian community if he believes the community is under-represented. Eligible voters must be Indian citizens, 18 or older, an ordinary resident of the polling area of the constituency and possess a valid voter identification card issued by the Election Commission of India. Some people convicted of electoral or other offences are barred from voting. Earlier there were speculations that the Modi Government might advance the 2019 general election to counter the anti-incumbency factor, however learning from its past blunder of preponing election made by the Vajpayee Government it decided to go into election as per the normal schedule which was announced by Election Commission of India (ECI) on 10 March 2019, after which Model Code of Conduct was applied with immediate effect.

**Answer the questions briefly:**

- i. Which word or phrase means "disapproval of current political officeholders" in the passage:
  - a. First-past-the-post
  - b. Blunder
  - c. Anti-incumbency
  - d. Model Code of Conduct
- ii. Since when was the Model Code of Conduct applied with immediate effect?
- iii. When does the President of India nominate an additional two members from the Anglo-Indian community?
- iv. What are the mandatory requirements to vote in India?
- v. What is the apt meaning of "speculations" as per the passage?

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - December - 2023

**FUNDAMENTALS OF AYURVEDA INCLUDING SWASTHAVRITTA**

Date : 05/12/2023

Time : 09:30 A.M. - 12:30 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 the word Dravya. Write its classification and importance. 10
2. Explain about Aptopadesh 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. Concept 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.

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - December - 2023

PHARMACEUTICAL CHEMISTRY (ORGANIC)

Date : 06/12/2023

Time : 09:30 A.M. - 12:30 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. What is thioalcohol? Give preparation & properties of it. 10
2. Answer any one out of two questions. 10
  - A Give IUPAC of following. (any five)  
1)  $\text{CH}_2=\text{CHCOOH}$  2)  $\text{CH}_3\text{COCH}_2\text{CH}_3$  3)  $\text{CH}_3\text{-OH}$  4)  $\text{C}_2\text{H}_5\text{SH}$  5)  $\text{H-CHO}$  6)  $\text{C}_3\text{H}_6\text{-NO}_2$
- OR
- B What do you mean by orbital? Explain different types of Atomic orbital with suitable diagram.
3. Write short notes on any **Four** of the following : 20
  - A. H-bond.
  - B. Difference between inductive and electromeric effect
  - C. V. B. Theory
  - D. Plane of symmetry.
  - E. Geometric isomers.
4. Answer any **Five** of the following :(two to three sentences) 10
  - A. Define dipole moment
  - B. Define acid and base according to Arrhenius theory
  - C. Define diastereomers
  - D. Mesocompound.
  - E. Optical activity.
  - F. Give IUPAC name of Acetone&Formic acid

SECTION-B

5. Explain preparation, properties and uses of alkane. 10
6. Answer any one out of two questions. 10
  - A Define Nucleophilic substitution reaction explain  $\text{SN}_2$  reaction mechanism
- OR
- B Define  $\alpha$ - $\beta$  unsaturated carbonyl compounds. Explain methods preparation and chemical Reactions.
7. Write short notes on any **Four** of the following : 20
  - A. Free radical substitution reaction.
  - B.  $\text{E}_1$  reaction.
  - C. Resonance
  - D. Define alcohol. Give its method of preparation
  - E. Benzyne mechanism
8. Answer any **Five** of the following :(two to three sentences) 10
  - A. Give structure of cetonaldehde and cinnamaldehyde
  - B. Why alkene is known as olefine?
  - C. Give uses of carboxylic acid
  - D. Define addition reaction with example.
  - E. Define carbanion
  - F. Draw energy profile diagram of  $\text{SN}_1$  reaction mechanism

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - December - 2023

**RASASHASTRA AND BHAISHAJYA KALPANA - I (AYURVEDIC PHARMACEUTICS)**

Date : 07/12/2023

Time : 09:30 A.M. - 12:30 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. Write about *Kwatha Kalpana* in detail. 10
2. Answer any one out of two questions. 10
- A Describe basic principles of *Aushadha Nirmana*.
- OR**
- B Write about *Mana Paribhasha* in detail.
3. Write short notes on any **Four** of the following : 20
- A. *Phanta Kalpana*.
- B. *Vasa Putapaka Swarasa*.
- C. *Laksharasa*.
- D. Difference between *Pramathya* and *Kwatha Kalpana*.
- E. *Dhanyakadi Hima*
4. Answer any **Five** of the following :(two to three sentences) 10
- A. Definition of *Kalpana*.
- B. Enlist *Pancha Vidha Kashaya Kalpana*.
- C. *Saveeryata Avadhi* of *Kshirapaka Kalpana*.
- D. Dose and use of *Tulasi Swarasa*.
- E. Ingredients of *Mustakadi Pramathya*.
- F. In which season *Shakha* (Branches) of the plant should be collected?

**SECTION-B**

5. Write about *Parada* along with its *Dosha* and its various *Samanya Shodhana* procedures. 10
6. Answer any one out of two questions. 10
- A Describe the concept of *Rasa Shala* in *Ayurveda* and in Modern.
- OR**
- B Define *Putra*. Describe its concept. Give details on *Varaha Putra*.
7. Write short notes on any **Four** of the following : 20
- A. *Sharangadhara Samhita*.
- B. *Rasa Tarangini*
- C. Explain *Hingula Shodhana*.
- D. Explain *Gairika Shodhana*.
- E. Explain *Sphatika Shodhana*.
8. Answer any **Five** of the following :(two to three sentences) 10
- A. Define *Marana*.
- B. Define *Nirvapa*.
- C. Define *Dhalana*.
- D. Enlist ingredients of *Kajjali*.
- E. Enlist *Panchamrittika*.
- F. Enlist *Mitrapanchaka*.

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**PHARMACEUTICAL CHEMISTRY - I (INORGANIC)**

Date : 08/12/2023

Time : 09:30 A.M. - 12:30 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 limit test of Iron. 10
2. Discuss the classification and applications of buffer solutions. 10

**OR**

Explain modern periodic table. How it is superior to Mendeleeff's periodic table.

3. Write short notes on any **Four** of the following: 20
  - A. Discuss mechanism of action of buffer
  - B. Discuss Mohr's method.
  - C. Write a short note on Electron affinity.
  - D. Describe the importance of limit in pharmaceutical preparation.
  - E. Explain Oxidation Redox titration.
4. Answer any **Five** of the following :(two to three sentences) 10
  - A. Enlist Nobel gases
  - B. Which compound is used as a standard in limit test of arsenic?
  - C. Define Ligand.
  - D. Give any two Examples of buffer solution.
  - E. Enlist Transition metals.
  - F. Define Secondary Standard.

**SECTION-B**

5. Explain Sodium thiosulphate as an antioxidant. 10
6. Explain Method of preparations and properties of borax. 10

**OR**

What is gravimetric analysis? Explain various steps of gravimetric analysis.

7. Write short notes on any **Four** of the following: 20
  - A. Give occurrence, properties, and uses of Copper.
  - B. Explain criteria required to act as an anti-oxidants.
  - C. Explain Nitrogen as an antioxidant.
  - D. Give occurrence, properties, and uses of Mercury
  - E. Explain Assay of Ammonium Chloride.
8. Answer any **Five** of the following :(two to three sentences) 10
  - A. Give uses of Aluminium
  - B. Define mother liquor.
  - C. Give any two examples of antioxidant.
  - D. Give uses of Iron
  - E. Write uses of ammonium chloride.
  - F. Give uses of Hypophosphorous acid.

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - December - 2023

**DISPENSING, COMMUNITY PHARMACY & HOSPITAL PHARMACY (DCH)**

Date : 09/12/2023

Time : 09:30 A.M. - 12:30 P.M.

Saturday

Marks : 100

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

**SECTION-A**

1. Write in detail on posology. 10
2. Answer any one out of two questions. 10
- A Write in detail on prescription.

**OR**

- B Write in detail on role of pharmacist in community health care.
3. Write short notes on any **Four** of the following : 20
  - A. Labelling.
  - B. Packaging.
  - C. Drug store.
  - D. Retail pharmacy.
  - E. Whole sale pharmacy.
4. Answer any **Five** of the following :(two to three sentences) 10
  - A. Define Vati.
  - B. Define capsule.
  - C. Define Kwatha.
  - D. Define pharmacovigilence
  - E. Define Basti.
  - F. Define Gutika.

**SECTION-B**

5. Write in detail on sterilization. 10
  6. Answer any one out of two questions. 10
  - A Write in detail on complex floor stock drug distribution system in hospitals.
- OR**
- B Write in detail on hospital pharmacy.
  7. Write short notes on any **Four** of the following : 20
    - A. Processing of capsule.
    - B. Processing of tincture.
    - C. Objectives and functions of hospital.
    - D. Drug budget.
    - E. Surgical dressings.
  8. Answer any **Five** of the following :(two to three sentences) 10
    - A. Define syrup.
    - B. Define drug information service.
    - C. Define tablet.
    - D. Define OPD and IPD.
    - E. Define drug information report.
    - F. Define UDDDS.

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SANSKRIT

Date : 12/12/2023

Time : 09:30 A.M. - 11:30 A.M.

Tuesday

Marks : 50

Instructions: 1. Every question is compulsory.

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

1. संधि कितने प्रकार की होती है ? व्यंजन संधि विस्तार से समझाइए । 10
2. "हरि" एवं "पितृ" शब्द का सभी विभक्तियों में रूप लिखिए । 10

OR

'जरद्वगीधकथा' को अपने शब्दों में लिखकर बोध लिखिए ।

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

A. संधि कीजिए

(१) तथा + इति (२) ग्रीष्म + ऋतुः (३) मम + इव

(४) मुनिः + सः (५) दुस् + चरित्रः

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

१. शीघ्रम् २. विना ३. च ४. बहिः ५. ततः

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

(१) रामात् (२) लतायै (३) फलस्य (४) लतायाम् ।

D. निम्नलिखित धातु रूप लिखिए [( कोई दो )

१. "वद्" धातु लट् लकार ।

२. "पच्" धातु लोट् लकार ।

३. "पठ्" धातु लृट् लकार ।

E. 'वारि' अथवा 'भानु' शब्द के सभी विभक्तियों में रूप लिखें ।

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

A. माहेश्वर सूत्र लिखिए ।

B. संस्कृत वर्णमाला में कितने स्वर और व्यंजन हैं ? लिखिए ।

C. चतुर्थी विभक्ति के दो उदाहरण लिखिए ।

D. ह्रस्व स्वर कौन से हैं ?

E. देवेन और देवानाम् शब्दों में कौन सी विभक्ति होती है ?

F. 'गच्छ्' धातु का प्रयोग करके दो वाक्य बनाईए ।

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

B. PHARM. (AYU.) FIRST YEAR EXAMINATION - December - 2023

**SHARIRA (ANATOMY & PHYSIOLOGY)**

Date : 11/12/2023

Time : 09:30 A.M. - 12:30 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. Enlist the endocrine glands and briefly explain its functions 10  
2. Answer any one out of two questions. 10  
A Explain Garbhavakranti.

**OR**

- B Enlist the organs of respiratory system and describe lungs  
3. Write short notes on any **Four** of the following : 20  
A. Structure of sperm  
B. Shadanga sharira  
C. Pancreas  
D. Chakshurendriya  
E. Spinal cord  
4. Answer any **Five** of the following :(two to three sentences) 10  
A. Name the carpal bones  
B. Names & number of bahirmukha srotas  
C. Define tissue.  
D. Parts of small intestine  
E. Define ashaya  
F. Enlist the main parts of the brain

**SECTION-B**

5. Explain ojus. 10  
6. Answer any one out of two questions. 10  
A Describe classification, functions and importance of upadhatu

**OR**

- B Explain kapha dosha in detail.  
7. Write short notes on any **Four** of the following : 20  
A. Location and function of prana vayu.  
B. Write on white blood cells.  
C. Vishamagni.  
D. Immunity  
E. Functions of endocrine system.  
8. Answer any **Five** of the following :(two to three sentences) 10  
A. Location of vyana vayu  
B. Avastha paka  
C. Types of ojus  
D. Write two functions of RBC  
E. Types of pitta dosha  
F. Functions of kandara

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