

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

Sanskrit

Date: 27-07-2021  
Tuesday

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

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

1. विभक्तियों की संख्या, नाम और द्वितीया विभक्ति सविस्तार समझाईए। 10
2. Answer any one out of two questions. 10  
A 'नदी' एवं 'मातृ' शब्द का सभी विभक्तियों में रूप लिखें।  
OR  
B 'जरद्वगीधकथा' कथाको अपने शब्दों में लिखकर बोध लिखिए।
3. Answer any **Four** of the following : 20  
A. सन्धि कीजिए।  
(१) महा + ईश्वरः (२) लता + इव (३) सप्त + ऋषिः  
(४) मम + इव (५) गंगा + उदकम्  
B. निम्नलिखित अव्यय का अर्थ बताते हुए वाक्य प्रयोग कीजिए।  
१. शीघ्रम् २. विना ३. च ४. बहिः ५. ततः  
C. निम्नलिखित नाम रूपों की पहचान दीजिए (कोई दो)।  
(१) रामात् (२) लतया (३) नद्यः।  
D. स्वर संधि विस्तार से समझाईए।  
E. 'राम' अथवा 'शिशु' शब्द के सभी विभक्तियाँ में रूप लिखें।
4. Answer any **Five** of the following :(two to three sentences) 10  
A. स्वर के प्रकार स्पष्ट कीजिए।  
B. 'वद्' धातु का प्रयोग करके दो वाक्य बनाईए।  
C. नद्या, रामात् शब्दों में कौन सी विभक्ति होती है ?  
D. कण्ठ्य स्थान से बोले जाने वाले वर्ण लिखिए।  
E. 'श्री रामाय नमः' – वाक्य में कौन सी विभक्ति है ?  
F. क्रियापद किसे कहते हैं ?

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

**Pharmaceutical Chemistry (Inorganic)**

Date: 30-07-2021  
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 Impurities. Discuss the importance of limit test in Pharmaceutical preparation. 10
2. Answer any **One** out of two questions. 10
  - A Discuss the classification and applications of buffer Solutions.
  - B Narrate the historical development of Periodic table.
3. Write short notes on any **Four** of the following : 20
  - A. Write advantages and disadvantages of nonaqueous titration.
  - B. Explain electron affinity.
  - C. Explain complexometric titration.
  - D. Describe limit test for Chloride.
  - E. Discuss mechanism of action of Buffer.
4. Answer any **Five** of the following : 10
  - A. Define Secondary standard.
  - B. Which compound is used as a standard in limit test for Arsenic?
  - C. Define Ligand.
  - D. Give examples of Buffer Solution.
  - E. Enlist transition metals.
  - F. Give advantages of EDTA.

**SECTION-B**

5. Explain the theory of Gravimetric analysis. Give the calculations of Gravimetric analysis. 10
6. Answer any **One** out of two questions. 10
  - A Discuss method of Preparation and Properties of Borax.
  - B Explain Sodium nitrite as an antioxidant.
7. Write short notes on any **Four** of the following : 20
  - A. Write assay of Ammonium choride.
  - B. Explain Sodium bisulphite as an antioxidant.
  - C. Give occurrence, properties and uses of Copper.
  - D. Describe (i) Ionic Product of water (ii) Law of mass action.
  - E. Give occurrence and properties of Mercury.
8. Answer any **Five** of the following : 10
  - A. Give any two examples of antioxidant.
  - B. Give occurrence and uses of Iron.
  - C. Write uses of Ammonium chloride.
  - D. Define mother Liquor.
  - E. Give uses of Calcium.
  - F. Write properties of Sodium.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

**Fundamentals Of Ayurveda Including Swasthavritta**

Date: 05-08-2021  
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. Write the similarity and differences between Samanya and Vishesha. 10
2. Answer any one out of two questions. 10
  - A Explain Anuman Pramana.
  - B Describe Panchamahabhoota.
3. Write short notes on any **Four** of the following : 20
  - A. Define Ayu and Ayurved.
  - B. Enlist Twenty five elements.
  - C. Write the utility of Dravya.
  - D. Write a note on Astang Hridaya.
  - E. Write a note on Shaarir Guna.
4. Answer any **Five** of the following : 10
  - A. Define Apta.
  - B. Define Guna.
  - C. Write the Panchabhautic Constitution of Doshas.
  - D. Write the types of Karma.
  - E. Enlist Karan Draya.
  - F. Write the Synonyms of mana.

**SECTION-B**

5. Explain Dinacharyaa. 10
6. Answer any one out of two questions. 10
  - A Write a note on Occupational health hazards.
  - B Explain Grishma Rutucharya.
7. Write short notes on any **Four** of the following : 20
  - A. Write a note on Dharaniya Vega.
  - B. Write a note on Carbohydrates.
  - C. Asta Aharavidhi Vishesh Aayatan.
  - D. National STD Control Program.
  - E. Write the usefulness of Swasthavritta.
8. Answer any **Five** of the following : 10
  - A. Define Swastha.
  - B. Enlist Ritus with its respective months.
  - C. Sources of Vitamin-B<sub>12</sub>.
  - D. Full form of VLDL.
  - E. Write the benefits of Anjan.
  - F. Write the name of Vitamin-C deficiency disease.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

**Pharmaceutical Chemistry (Organic)**

Date: 31-07-2021  
Saturday

Time: 02:30 P.M. to 05:30 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 and classify Thiocompounds. Explain Thioether. 10
2. Answer any one out of two questions. 10
- A. Write IUPAC name of following. (any five)
- |   |  |  |
|---|--|--|
| CN<br> <br>1)CH <sub>3</sub> CHCH <sub>2</sub> COOH | 2) CH <sub>3</sub> CH <sub>2</sub> NH <sub>2</sub> | OH<br> <br>3)CH <sub>3</sub> CHCH <sub>3</sub> |
| 4) CH <sub>3</sub> CH <sub>2</sub> OCH <sub>3</sub> | 5) CH <sub>3</sub> CH <sub>2</sub> CHO             | 6) HCOOH                                       |

**OR**

- B. Explain V.B. theory. Explain formation of H<sub>2</sub> molecule and give limitations.
3. Write short notes on any **Four** of the following : 20
- A. Geometric isomerism.  
B. R-S configuration.  
C. Inductive effect.  
D. Hydrogen bond.  
E. Preparation and chemical reaction of Thiophene.
4. Answer any **Five** of the following :(two to three sentences) 10
- A. Explain Staggered and Eclipsed confirmation.  
B. Define Stereochemistry.  
C. Define Dipole moment.  
D. Explain Enantiomer.  
E. Explain Arrhenious acid and base.  
F. Write uses of Thiophene.

**SECTION-B**

5. Write about Resonance, types of resonance and resonance energy. 10
6. Answer any one out of two questions. 10
- A. Define  $\alpha$ - $\beta$  unsaturated carbonyl compound. Explain its method of preparation.
- OR**
- B. Give preparation, properties and uses of Aromatic alcohol.
7. Write short notes on any **Four** of the following : 20
- A. Walden inversion reaction.  
B. Bimolecular displacement mechanism.  
C. Free radical reaction mechanism.  
D. Preparation and properties of Alkanes.  
E. Carbonium ion.
8. Answer any **Five** of the following :(two to three sentences) 10
- A. Give uses of ketones.  
B. Define Nucleophile.  
C. Explain elimination reaction with examples.  
D. Define organic reaction mechanism.  
E. Draw structure of Pthalic acid and n Hexane.  
F. Define unsaturated compound. Give test for unsaturation.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

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

Date: 03-08-2021  
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. Write guidelines regarding collection, storage and preservation of Ayurvedic raw materials. 10
  2. Answer any one out of two questions. 10
    - A. Explain Saveeryata avadhi of Ayurvedic drugs as per ancient and modern aspect.
- OR**
- B. Describe basic principles of Aushadha nirman in brief.
  3. Write short notes on any **Four** of the following : 20
    - A. Churnodaka
    - B. Phanta
    - C. Shadanga paniya
    - D. Tandulodaka
    - E. Importance of Maana
  4. Answer any **Five** of the following :(two to three sentences) 10
    - A. Dose and use of Dhanyaka hima
    - B. Dose and use of Nimba kalka
    - C. Dose and use of Kharjuradi mantha
    - D. Give two examples of Phanta Kalpana
    - E. Dose of Ardraka svarasa and Vasa putapaka svarasa
    - F. Which drugs should always be collected in dry form?

**SECTION-B**

5. Write dosha of Parada and explain its Samanya-Vishesha shodhan 10
  6. Answer any one out of two questions. 10
    - A. Define Rasa Shastra and describe role of Puta in Rasa Shastra in detail.
- OR**
- B. Define Musha and describe its role in Rasa Shastra in detail.
  7. Write short notes on any **Four** of the following : 20
    - A. Marana
    - B. Shodhana
    - C. Patala yantra
    - D. Parada vikara & its prashaman
    - E. Dhanvantri bhag
  8. Answer any **Five** of the following :(two to three sentences) 10
    - A. Two examples of avapa
    - B. Two eg of Nirvaapa
    - C. Two examples of Sattva
    - D. Drugs included in Kshara traya
    - E. Drugs included in Madhur traya
    - F. Use of Dola yantra.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

**Sharira (Anatomy & Physiology)**

Date: 04-08-2021  
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. Enlist the Organs of Respiratory system and explain Trachea 10
2. Answer any one out of two questions. 10
  - A Explain Ashaya in detail
  - B Define tissue, Name the types of tissues and Describe connective tissue in detail.
3. Write short notes on any **Four** of the following : 20
  - A. Name the divisions and subdivisions of Body as per modern science
  - B. Classification of Srotas
  - C. Pleura
  - D. Testes
  - E. Meninges
4. Answer any **Five** of the following: 10
  - A. Ribosome
  - B. Measurement of Large intestine
  - C. Define Sira
  - D. Name the types of bone according to Modern science
  - E. Define garbha
  - F. Indriya panchaka

**SECTION-B**

5. Explain physiological importance of Agni in body 10
6. Answer any one out of two questions. 10
  - A Explain Adrenal gland, its hormones and functions with diagram
  - B Write on Ojas and its types in detail.
7. Write short notes on any **Four** of the following : 20
  - A. Name the dhatus and corresponding upadhatu
  - B. Importance of Vata
  - C. Ksheera dhadhi nyaya
  - D. Passive immunity
  - E. Functions of Nervous system
8. Answer any **Five** of the following : 10
  - A. Define Vipaka
  - B. Functions of Apana vayu
  - C. Types of Pitta
  - D. Adhishtana (Location) of Tarpaka Kapha
  - E. Write any two differences between Agni and Pitta
  - F. Normal value of WBC & RBC in body

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

**Dispensing, Community Pharmacy and Hospital Pharmacy**

Date: 06-08-2021  
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. Write in detail on community pharmacy. 10
2. Answer any one out of Two questions. 10
  - A Write in detail on handling of prescription.
  - B Write in detail on posology.
3. Write short notes on any **Four** of the following : 20
  - A. Dispensing pharmacy.
  - B. Incompatibility in prescription.
  - C. Role of pharmacist in community health care.
  - D. Maintenance of drug store.
  - E. Patient counselling.
4. Answer any **Five** of the following : 10
  - A. Define Basti.
  - B. Define suppositories.
  - C. Define Asava and Arishta.
  - D. Define retail pharmacy
  - E. Define emulsions.
  - F. Define labelling.

**SECTION-B**

5. Define drug distribution system in hospital in detail. 10
6. Answer any one out of Two questions. 10
  - A Define hospital pharmacy.
  - B Define in detail on sterilization.
7. Write short notes on any **Four** of the following : 20
  - A. Drug budget.
  - B. Drug information service.
  - C. Surgical dressings.
  - D. Write in detail on processing of tablets.
  - E. Write in detail on processing of capsules.
8. Answer any **Five** of the following : 10
  - A. Define UDDDS.
  - B. Define hospital.
  - C. Define tincture.
  - D. Define syrup.
  - E. Define drug reports.
  - F. Define drug records.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) First Year Examination : May- 2021 (Re-schedule on July-2021)

English

Date: 28-07-2021  
Wednesday

Time: 02:30 P.M. to 04:30 P.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 in the brackets. 5
- A. She was \_\_\_\_\_ ill in the party yesterday. ( looked, looks, looking)  
B. He \_\_\_\_\_ his breakfast every day. (had, have , has)  
C. Students \_\_\_\_\_ for their exam next month( will appear, appeared , appearing)  
D. I \_\_\_\_\_ my notebook yesterday. (bring, brought, bringing)  
E. Neeta \_\_\_\_\_ TV right now. ( is watching, watched, will watch)
2. Change the following active sentences to passive sentences 5
- A. I took breakfast in the morning.  
B. She gave test on last Sunday.  
C. He can speak English nicely.  
D. India launched Mangal Yaan.  
E. My mom makes tea for me every day in the morning.
3. Choose the correct modal verb from those in bracket. 5
- A. He \_\_\_\_\_ to take rest because he looks very tired. ( must, have , needs)  
B. All the Students \_\_\_\_\_ appear for the test at the end of course. (may, will have to, should)  
C. He thinks that he \_\_\_\_\_ get good marks. (should, could, would)  
D. We \_\_\_\_\_ wear mask before going out. (need to, will, must )  
E. You \_\_\_\_\_ sleep early as you are tired. (should, would, have to)
4. Fill in the blanks with correct forms of the verb given in bracket. 5
- A. I \_\_\_\_\_ completed my work. (has, have, have been)  
B. He has \_\_\_\_\_ the matter with his parents. (discussing, discussed, discusses)  
C. Reena has been \_\_\_\_\_ in this college for 3 years. (teaching, taught, teaches)  
D. He will \_\_\_\_\_ the deal tomorrow. (sign, signed, signs)  
E. She will be \_\_\_\_\_ for Delhi tomorrow. ( left, leaving , leaved)
5. A. Find out the synonym for the underlined word from the options given, write only answer option. 4
1. Inspector was a vigilant young man.  
(a) Smart (b) watchful (c) ambitious (d) intelligent  
2. He spoke impromptu on the occasion.  
(a) eloquently (b) without preparation (c) without enthusiasm (d) with great force  
3. The perpetual noise made it impossible for them to concentrate on the problems.  
(a) irritating (b) constant (c) unlimited (d) recurrent  
4. She wished to work on her novel in solitude.  
(a) Isolation (b) togetherness (c)aloneness (d) single mindedness
- 5 B. Find out anonym from the word from the opts given 4
1. Scanty  
(a) arrogant (b) plentiful (c)painful (d)handsome  
2. Merciless  
(a) obscure (b) injurious (c) urgently (d) compassionate  
3. Hardships  
(a) difficulty (b) comforts (c) problems (d) luxury  
4. Pessimist  
(a) theist (b) believer (c) optimist (d) vocalist

[P.T.O.]



6. Write the appropriate phrasal verbs from the given list against the sentences list of phrasal verb. 7

call off	look after	hand over	
asked for	put on	pass on	take off

- A. She \_\_\_\_\_ for a glass of water
- B. We decided to \_\_\_\_\_ the strike
- C. In the old age she has no one to \_\_\_\_\_ her
- D. Why don't you \_\_\_\_\_ a jacket over your shirt.
- E. Please \_\_\_\_\_ your shoes before entering the house.
- F. You need to \_\_\_\_\_ your documents to me before you leave .
- G. Please \_\_\_\_\_ the file to me.

7. Write benefits of yoga or meditation in 200 words 10

Or

Reduce the text to 1/3 (on third) and give a suitable heading:

In everyday speech we talk of having a good memory, of having a poor memory, of having better memory for faces than for names, of having a memory that is failing and so on. Such talk suggests that memory is an object, a thing which we possess in the same way as we possess a head or a big toe. Yet it is true to say there is no such things as memory. A big toe can be seen and touched, but not so memory. Should an acquaintance boast of having an excellent memory, we cannot confirm his claim in the same way as if he boasted the possession of a well stocked library. We cannot ask him to show his memory. What we could do, however, is to see how much of this past experience he can recollect and how many of the books he has read he can remember. Memory is a physical and mental retention of the past for future use. The mind and the body tend to forget experiences which are either unwelcome or useless.

8. Read the following passage and answer (Any 5) questions that follow it. Answer should be brief, to the point and in your own words: 5

The great advantage of early rising is the good start it gives us for our day's work. The early riser has done a large amount of hard work before other men have got out of bed. In the early morning the mind is fresh, and there are few sounds or other distractions, so the work done at the time is generally well done. In many cases the early riser also finds time to take some exercise in the fresh morning air, and this exercise supplies him with a fund of energy that will last to do thoroughly all the work he can be expected to do, and is not tempted to hurry over any part of it. All his work being finished in good time, he has a long interval of rest in the evening before the timely hour when he goes to bed. He gets to sleep several hours before midnight, at the time when sleep is most refreshing and after a sound night's rest rises early next morning in good health and spirits for the labours of a new day.

It is very plain that such a life as this is far more conducive to health than that of the man who shortens his waking hours by rising late, and so can afford in the course of the day little leisure for necessary rest. Anyone who lies in bed late, must, if he wished to do a full day's work, go on working to a correspondingly late hour, and deny himself the hour or two of evening exercise that he ought to take for the benefit of his health. But, in spite of all his efforts, he will probably not produce as good results as the early riser, because he misses the best working hours of the day.

1. Give a suitable title to the passage.
2. What is the best advantage of rising early?
3. Why is the work done in the early morning well done?
4. Why is the early riser not tempted to hurry over his day's work?
5. What enables the early riser to go to bed at the proper time?