

Rasashastra & Bhaishajya Kalpana – I (Ayurvedic Pharmaceutics)

Date: 13-02-2023
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. Describe about Collection, storage and preservation method of raw materials. 10
2. Answer any one out of two questions. 10
A Describe *Pancha Vidha Kashaya Kalpana* in detail. Explain *Hima Kalpana* in particular.

OR

- B What are the *Upakalpana* of *Kwatha Kalpana*? Give detailed description of *Kshirapaka Kalpana* with example.
3. Write short notes on any **Four** of the following : 20
A. *Putapaka Swarasa Vidhi*.
B. *Kharjuradi Mantha*.
C. *Triphala Kwatha*.
D. General method of preparation of *Kalka Kalpana* with example.
E. *Aushadha Siddha Paniya*.
4. Answer any **Five** of the following :(two to three sentences) 10
A. Enlist basic principles of *Aushadha Nirmana*.
B. What are the types of *Kwatha Kalpana*?
C. 1 *Ratti* = _____ mg
D. 1 *Tola* = _____ g
E. 1 *Pala* = _____ g
F. 1 g = _____ *Masha*

SECTION-B

5. Define *Putra*. Describe its concept and types. Give details of *Maha Putra*. 10
6. Answer any one out of two questions. 10
A Describe the term *Yantra*. Give details about *Kachchhapa Yantra*.

OR

- B What is *Musha*? Enlist various types of *Musha* used in *Rasa Shastra*. Write in detail about *Vruntak Musha*.
7. Write short notes on any **Four** of the following : 20
A. *Rasa Ratna Samuchchaya*.
B. *Bhava Prakasha*.
C. *Parada Samanya Shodhana*.
D. Explain *Sasyaka Shodhana*.
E. Explain *Shankha Shodhana*.
8. Answer any **Five** of the following :(two to three sentences) 10
A. Enlist *Sudha Varga*
B. Enlist *Dhatu Varga*
C. Enlist *Ratna Varga*
D. Enlist *Uparasa Varga*
E. Enlist *Visha Varga*
F. Name the *Yantra* used in *Banga Shodhana*.

Dispensing, Community Pharmacy and Hospital Pharmacy

Date: 14-02-2023
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 in detail on role of pharmacist in community health care and education. 10
2. Answer any one out of two questions. 10
- A Write in detail on incompatibilities in prescription.
- OR**
- B Write in detail on posology.
3. Write short notes on any **Four** of the following : 20
 - A. Principles and procedures adopted in dispensing Churna.
 - B. Principles and procedures adopted in dispensing Basti.
 - C. Principles and procedures adopted in dispensing Vati.
 - D. Retail and wholesale pharmacy.
 - E. Dispensing pharmacy.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define labelling.
 - B. Define storage.
 - C. Define packaging.
 - D. Define pharmacovigilence
 - E. Define drug store.
 - F. Define Asavarishta.

SECTION-B

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

Date: 15-02-2023
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 books of Laghutrayi and describe Contribution of Charaka Samhita in Pharmaceutical Science. 10
2. Answer any one out of two questions. 10
 - A. Describe Ayurvediya Padartha Vignana with its utility & aims.
- OR**
- B. Describe the classification of dravya in detail.
3. Write short notes on any **Four** of the following : 20
 - A. Aptopadesh pramana
 - B. Anumana Pramana
 - C. Rasa Ratna Samuchaya
 - D. Atma
 - E. Utility of Agni mahabhuta in Pharmaceutical science.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define Disha.
 - B. Define Karma.
 - C. Define Chetan and Achetan.
 - D. Write the effects of Guru Guna on the human body.
 - E. Define Ayurveda.
 - F. Enlist parts of Astanga Ayurveda.

SECTION-B

5. Explain Adharniya Vega. 10
6. Answer any one out of two questions. 10
 - A. Describe factory Act.
- OR**
- B. Explaining Ritu Sandhi Describe Grishma Ritu Charya.
7. Write short notes on any **Four** of the following : 20
 - A. Revised National Tuberculosis Control Programme.
 - B. National Rural Health Mission.
 - C. Write sources of Carbohydrates Along with its functions on human body.
 - D. Effects of vyayama on human body.
 - E. Methods and utility of Kavala & Gandusha.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Enlist Dharniya vega.
 - B. Write symptoms caused by withholding urge of Kshudha (Hunger).
 - C. Define Swastha.
 - D. Write Doshik status of Vasant Ritu.
 - E. Enlist any four names of Occupational diseases.
 - F. What is the meaning of Hamsodaka.

Sharira (Anatomy & Physiology)

Date: 16-02-2023

Thursday

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

Marks: 100

- Instructions: 1. All questions are compulsory
2. All questions bear the marks written on the right side

SECTION A

1. Define bone and Explain the classification of bone with example as per Modern science 10
2. Answer any one out of two questions 10
 - A. Explain location, measurement and external features Thyroid gland with diagram
 - B. Explain Cerebrum with diagram
3. Write a Short note on any **four** of the following questions 20
 - A. Shadanga Sharira
 - B. Types of tissues and its functions.
 - C. External features of human heart
 - D. Corpus callosum
 - E. Ghranendriya
4. Answer any **five** of the following questions 10
 - A. Asthi Samkhya(Number of Asthi) according to Ayurveda
 - B. Define Sharira
 - C. Define Indriya
 - D. Define Koshta
 - E. Name the divisions of nervous system
 - F. Write the measurements of urinary bladder

SECTION B

5. Explain the Vata dosha and its physiological importance 10
6. Answer any one out of two questions 10
 - A. Explain the concept of Agni and its importance
 - B. Describe the concept of Vyadhikshamatwa
7. Write a Short note on any **four** of the following questions 20
 - A. Kedarakulya nyaya
 - B. Location and functions of Pachaka Pitta
 - C. Asthi dhatu
 - D. Active immunity
 - E. Plasma
8. Answer any **five** of the following questions (In two to three sentences) 10
 - A. Define Mala
 - B. Types of Agni
 - C. Types of Kapha
 - D. Types of tissue
 - E. Name the nine regions of abdomen
 - F. Name the organs of respiratory system

Pharmaceutical Chemistry (Inorganic)

Date: 17-02-2023
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. Describe the salient features of Mendeleef's periodic law. Why Modern periodic table superior to Mendeleef's period table ? 10
2. Answer any **one** out of two questions. 10
 - A. Explain limit test for Chloride with suitable examples.
 - B. Describe Mohr's method and Volhard's method of titration.
3. Write a short note on any **Four** of the following : 20
 - A. Bond length.
 - B. Limit test for Heavy metal.
 - C. Mechanism of actions of Buffer.
 - D. Acid base titration.
 - E. Henderson-Hasselbalch equation.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Impurity.
 - B. Indicator.
 - C. Iodometry.
 - D. Uses of buffer in Pharmacy field.
 - E. Normality.
 - F. Molality and Molarity.

SECTION-B

5. Explain precipitation and filtration in gravimetric analysis. 10
6. Answer any **one** out of two questions. 10
 - A. Write mechanism of action of Antioxidant and explain Hypophosphorous acid as an Antioxidant.
 - B. Explain method of preparation, properties and assay of Borax.
7. Write a short note on any **Four** of the following : 20
 - A. Occurrence, properties and uses of Gold.
 - B. Chemical name, formula and uses of Green vitriol and Rochelle salt.
 - C. Limitation of Gravimetric analysis.
 - D. Sodium bisulphate as an antioxidant.
 - E. Assay principles and properties of Ammonium chloride.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Uses of Iron.
 - B. Uses of Ammonium chloride.
 - C. Define Digestion.
 - D. Sodium thiosulphate.
 - E. Coagulation.
 - F. Uses of Antioxidant.

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

1. संधि कितने प्रकार की होती है ? स्वर संधि विस्तार से समझाईए। 10
2. Answer any **one** out of two questions. 10
- A 'भानु' एवं 'पितृ' शब्द का सभी विभक्तियों में रूप लिखें।
- OR
- B "जरद्वगीध" कथाको अपने शब्दों में लिखकर बोध लिखिए।
3. Answer any **Four** of the following : 20
- A. सन्धि कीजिए।
(१) हिम + आलय (२) सु + आगतम् (३) सदा + एव
(४) मम + इव (५) उप + इन्द्रः
- B. व्यंजन कितने प्रकार के होते हैं ? समझाईए।
- C. निम्नलिखित नाम रूपों की पहचान दीजिए (कोई दो)।
(१) रामेण (२) लतयाः (३) फलस्य
- D. निम्नलिखित अव्यय एवं संख्या का अर्थ बताते हुए वाक्य प्रयोग कीजिए।
(१) ततः (२) शीघ्रम् (३) च (४) एकम् (५) नवम्।
- E. 'लता' अथवा 'गज' शब्द को सभी विभक्तियों में लिखो।
4. Answer any **Five** of the following :(two to three sentences) 10
- A. माहेश्वरसूत्र लिखिए।
- B. 'गच्छ्' धातु का प्रयोग करके दो वाक्य बनाईए।
- C. रामात् और रामाणाम् शब्दों में कौन सी विभक्ति होती है ?
- D. ह्रस्व स्वर कौन से हैं ?
- E. संप्रदान का अर्थ स्पष्ट कीजिए।
- F. तालव्य स्थान से बोले जाने वाले वर्ण लिखिए।

Pharmaceutical Chemistry (Organic)

Date: 20-02-2023
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. What do you mean by orbital? Explain atomic orbitals in detail. 10
2. Answer any **One** out of two questions. 10
- A. Draw structures of following (any five)
- | | | |
|-------------------|------------------------|----------------|
| 1) Salicylic acid | 2) Bromobenzene | 3) 1,2 butene |
| 4) Toluene | 5) α - Naphthol | 6) Picric acid |
- OR**
- B. Explain preparation and properties of Thioether.
3. Write short notes on any **Four** of the following : 20
- A. Inductive and Electromeric effect.
B. Optical activity.
C. Explain any two methods of preparation of Racemic mixture.
D. Give IUPAC name of $\text{CH}_3\text{CH}_2\text{CH}_2\text{CN}$ and NH_2CONH_2
E. Element of symmetry.
4. Answer any **Five** of the following :(two to three sentences) 10
- A. Define H-bond.
B. Explain Diastereomer.
C. Give limitations of VB theory.
D. Define Racemic mixture
E. Give two compounds of thioalcohols.
F. Define Bronsted Lowry acid and base.

SECTION-B

5. Define elimination reaction and explain E_1 reaction in detail. 10
6. Answer any one out of two questions. 10
- A. What is nucleophilic aromatic substitution reaction? Explain Benzyne mechanism.
- OR**
- B. Give preparations and properties of Aromatic acid.
7. Write short notes on any **Four** of the following : 20
- A. Free radical reaction mechanism.
B. Any two preparation and chemical reactions of ketone.
C. Michael addition reaction.
D. Walden inversion reaction.
E. Explain substitution and addition reactions with examples.
8. Answer any **Five** of the following :(two to three sentences) 10
- A. Explain electrophile.
B. Give uses of aliphatic alcohol.
C. Define homolytic bond fission.
D. Define Carbanion.
E. Define α - β unsaturated carbonyl compounds with examples.
F. Define Resonance energy.

English

Date: 22-02-2023
Wednesday

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

Instructions: 1. Every question is compulsory.

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

1. Fill in the blanks with the correct form of verbs given in the brackets. 5
- A. Your friends _____ (wait) for you for over an hour.
B. It _____ (rain) since last night, and it _____ (look) as if it may rain for the rest of the day.
C. _____ the taxi _____ (come) yet? It _____ (be) already ten minutes late.
D. The police _____ (investigate) the robbery that _____ (took) place last week.
E. There was a great crowd at the shopping center. Most of the people _____ (do) their New Year's shopping.
2. Change the voice and rewrite the sentence using the same tenses. 5
- A. I know the touch of that hand.
B. They cannot be cut into two.
C. What has been done by you?
D. Biscuits are prepared by bakers.
E. He told him an interesting story.
3. Fill in the spaces with suitable prepositions 5
- A. The lion was killed _____ the hunter. (with / by)
B. Beware _____ dogs. (of / off)
C. I can't stand surely _____ him. (with / for)
D. Hard work is the key _____ success. (to / of)
E. He died _____ overwork. (of / from)
4. Give synonym for the given words: 5
- A. catch B. back C. doubt D. eager E. fast
5. Give antonyms for the given words: 5
- A. fair B. great C. high D. live E. merit
6. Add the prefix "anty-" or "extra-" to each of the following words and use them in sentences of your own. 4
- A. curricular B. biotic C. ordinary D. dote

[P.T.O.]

7. Match the following phrasal verbs given in the "A" with the meanings given in the "B".

5

A
Be fed up
Hold on
Live with
Nail Down
Pack up

B
Wait
succeed in achieve something
Stop doing something
Be bored
Accept something unpleasantly

8. As a member of your residential society, write a **letter or e-mail** addressing the inspector of local police station, Mr. Sharma, complaining about the miscreants creating nuisance with their rash bike riding every evening out side your society. Sign the letter/e-mail as Mr.RaviVarma.

6

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

10

Is education too commercialized now-a-days?

OR

Are people becoming technological zombies?
