

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Rasashastra and Bhaishajya Kalpana – IV (Ayurvedic Pharmaceutics)

Date: 25-08-2022
Thursday

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. Write preparation method, siddhi lakshna, precautions, dose and anupana of Drakshaarishta. 10
2. Answer any **One** out of two questions. 10
 - A Explain preparatory method of Kshara – Sutra.
 - B Explain preparatory method of Basti- drava.
3. Write short notes on any **Four** of the following : 20
 - A. Lepa Kalpana
 - B. Saurashtri Netra – Bindu
 - C. Steps for standardization of a Bhasma
 - D. Difference between - Kavala and Gandusha.
 - E. Difference between –dhupa and Dhumpana.
4. Answer any **Five** of the following : 10
 - A. Dose of Marsha and Pratimarsha Nasya
 - B. Dose of Niruha and Anuvasana Basti.
 - C. Uses of Kshara-sutra.
 - D. Packaging and storage of Kshara-Sutra.
 - E. Precautions needed for Lepa – application.
 - F. Pharmaceutical uses of Kanji.

SECTION-B

5. What is Rasa – Bhasma? Explain in detail. 10
6. Answer any **One** out of two questions. 10
 - A Define Dhatu and explain any one dhatu in detail.
 - B Define Ratna and explain any one Ratna in detail.
7. Write short notes on any **Four** of the following : 20
 - A. Shukti
 - B. Yashada – Shodhan and Marana
 - C. Tankana
 - D. Ayaskruti as per Acharya Charaka.
 - E. Amritikaran of Tamra
8. Answer any **Five** of the following : 10
 - A. Enlist names of Uparatna.
 - B. Chemical composition of Godanti and Tankana.
 - C. Is shodhana of Gold necessary? Give reason.
 - D. Two formulation of Shankha.
 - E. Chemical composition of Bronze and Brass.
 - F. Two formulations of Naga.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Dravyaguna –III (Ayurvedic Pharmacology)

Date: 26-08-2022
Friday

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. What are the factors responsible for controversy of Brahmi ? Discuss steps to resolve controversy of Brahmi? 10
2. Answer any **One** out of two questions. 10
 - A. Discuss about Ayurvedic, collection, preservation and storage of drugs.
 - B. Discuss various impurities, Purification technique and toxic effect of Ahifena.
3. Write a short note on any **Four** of the following : 20
 - A. Define Saviryta Avadhi.
 - B. Discuss concept of Vyavayi, Vikasi and Ashukari.
 - C. Write a note on purification technique of Guggulu.
 - D. Write short note on Rakshoghna Karma.
 - E. Discuss concept of Shirovirecnamopaga and Shirovirechana.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Shramahar karma.
 - B. What do you mean by Nidnrajanan?
 - C. Define Vishtambhi.
 - D. What do you mean by Avasadana?
 - E. Write Botanical name and Vishakta Lakshan of Dhatura.
 - F. Define controversy of Jivanti.

SECTION-B

5. Write detail description of Jyotishmati. 10
6. Answer any **One** out of two questions. 10
 - A. Write the ingredients and collective action of Panchgavya and Panchsara.
 - B. Write detail description of Varuna.
7. Write a short note on any **Four** of the following : 20
 - A. Write Botanical name, family, Post used, dose and formulation of Karanja.
 - B. Disuss Kshirastaka.
 - C. Write Karma and Prayoga of Sarpunkh and Katuki.
 - D. Write Botanical name, family, past used and signle main action of Bala.
 - E. Write Karma and Prayoga of Ahifena and Yavani.
8. Answer any **Five** of the following: (two to three sentences) Write Botanical name, Family, veerya and single main action. 10
 - A. Bakula
 - B. Kaidarya
 - C. Mulaka
 - D. Champaka
 - E. Hribera
 - F. Sarja

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Forensic pharmacy & Pharmaceutical Management

Date: 29-08-2022
Monday

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. Discuss Shops & Establishment act in brief. 10
2. Answer any one out of two questions. 10
 - A. Explain Code of Pharmaceutical Ethics.
 - B. Discuss prevention of Cruelty to Animals act.
3. Write a short note on any **Four** of the following: 20
 - A. Pollution act.
 - B. Pharmacovigilance.
 - C. Discuss prohibited advertisement.
 - D. Objectives and functions of PCI.
 - E. Discuss any two Schedules related to DACA.
4. Answer any **Five** of the following: (two to three sentences) 10
 - A. Define Narcotic Drugs.
 - B. What is DTAB?
 - C. Write full name of SPC.
 - D. Write any two examples of Poisonous drugs.
 - E. Enlist types of Patent.
 - F. Define B.M.R.

SECTION-B

5. Discuss Budget and Budgetary controls. 10
6. Answer any one out of two questions. 10
 - A. Explain product planning and control.
 - B. Discuss Personal management with the importance of training.
7. Write a short note on any **Four** of the following: 20
 - A. Discuss product layout and Process layout.
 - B. Functions of Marketing.
 - C. Explain advertisement to Physicians.
 - D. Problem of productivity stores organization.
 - E. Discuss scientific purchasing.
8. Answer any **Five** of the following: (two to three sentences) 10
 - A. Define remuneration.
 - B. Enlist 4 P's of Marketing.
 - C. What is the meaning of Distribution?
 - D. Define Quality control.
 - E. Interior display.
 - F. Define Consumer satisfaction.

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

Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 30-08-2022

Time: 02:30 P.M. to 05:30 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. Explain Dry and Wet granulation methods for Tablets. Write a brief note on Sugar coating and Film coating used for Tablet. 10
2. Answer any **One** out of two questions. 10
 - A. Write detail note on various types of Incompatibilities and different methods for solving the Incompatibilities.
 - B. Write an importance of Stability studies in Ayurvedic formulations. Discuss the Regulatory guidelines for stability studies.
3. Write a short note on any **Four** of the following : 20
 - A. Polymorphism and Crystallinity
 - B. Pilot Plan Scale-up techniques
 - C. Dentifrices and Lipsticks
 - D. Manufacturing procedures and its importance in GMP
 - E. Hair shampoo and Hair dye
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Eutectic mixtures
 - B. Master formula
 - C. Bulk characteristics in Preformulation
 - D. Capping & Lamination
 - E. Hygroscopicity
 - F. Shelf life

SECTION-B

5. Write a detail note on Microencapsulation with its advantages and disadvantages. Enumerate the techniques for Microencapsulation and explain any One in detail. 10
6. Answer any **One** out of two questions. 10
 - A. Write detail note on Sustained release dosage forms. Explain Targeted drug delivery system to GI tract in brief.
 - B. Write a detail note on evaluation parameters for Containers used in Pharmaceuticals.
7. Write a short note on any **Four** of the following : 20
 - A. Additives used in Parenteral preparations
 - B. Osmotic tablet and Floating tablet
 - C. Evaluation methods for Capsule
 - D. Evaluation methods for Parenteral preparations
 - E. Respiratory delivery system
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Uses of Amber coloured glass
 - B. Osmotic pumps
 - C. Hard gelatine Capsule
 - D. Water for Injection
 - E. Child resistance containers
 - F. Nano particles

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

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 01-09-2022
Thursday

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. Classify drugs used in the treatment of Bronchial asthma with their mechanism of actions. 10
2. Answer any **One** out of two questions. 10
 - A. Classify drugs used in treatment of Angina pectoris with their mechanism of actions.
 - B. Discuss Blood-coagulation and classify the drugs affecting on it.
3. Write short notes on any **Four** of the following : 20
 - A. Classification of Anti-hypertensive drugs
 - B. Classification of Diuretics
 - C. Physiology of Urine formation
 - D. Central cough suppressants
 - E. Iron deficiency Anaemia
4. Answer any **Five** of the following : 10
 - A. Anti-platelet agents
 - B. Fibrinolytic drugs
 - C. Ayurvedic drugs used in Hypertension
 - D. Ayurvedic drugs used in Anaemia
 - E. Ayurvedic drugs used as Diuretics
 - F. Functions of blood

SECTION-B

5. Classify Non-steroidal Anti-inflammatory drugs with their mechanism of actions 10
6. Answer any **One** out of two questions. 10
 - A. Classify Antimicrobial drugs with their mechanism of actions.
 - B. Write brief note on Immune reactions and Immunosuppressants.
7. Write short notes on any **Four** of the following : 20
 - A. Estrogen and Progesterone
 - B. Classification of analgesic drugs
 - C. Diabetes mellitus
 - D. Growth hormones
 - E. Anti-arthritic drugs
8. Answer any **Five** of the following : 10
 - A. Ayurvedic drugs used in Diabetes
 - B. Drugs for Psoriasis
 - C. Ayurvedic drugs used in Menstrual problems
 - D. Astringent
 - E. Antiviral drugs
 - F. Ayurvedic drugs used in Skin disorders.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Analysis of Ayurvedic Drugs –III

Date: 02-09-2022

Time: 02:30 P.M. to 05:30 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. What is the need of Standardisation? How will you standardise plant raw drugs? 10
2. Answer any **One** out of two questions. 10
 - A. How will you standardise the Ashwangandha avleha? Enumerate all parameters and explain.
 - B. Enumerate all the parameters included in Pharmacopoeia and explain any three parameters in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Chemical testing according to Good Laboratory Practices
 - B. Explain: Acid value in detail with significance
 - C. Enumerate all the parameters for Churna preparation and explain Extractive values in different solvents
 - D. What is the role of alcohol in Asava and Arishta?
 - E. Enumerate some precautions in chemical handling according to GLP.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define: Acid value
 - B. Define: Ash value
 - C. Define: Standard
 - D. C.G.L.P.
 - E. S.O.P.
 - F. Validation

SECTION-B

5. Minimum space and instruments required for different formulations according to Schedule T, Good Manufacturing Practices. 10
6. Answer any **One** out of two questions. 10
 - A. Explain instrumentation of Atomic Absorption Spectroscopy in brief with diagram.
 - B. Give analytical profile of Milk in detail.
7. Write a short note on any **Four** of the following : 20
 - A. Tetra methyl silane as reference standard
 - B. Instrumentation of N.M.R. spectroscopy in brief
 - C. Estimation of fat content in Milk
 - D. Estimation of tannin from Tea leaves
 - E. Quality assurance in brief
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Test for unboiled Milk
 - B. Difference between A.A.S and A.E.S.
 - C. Name different methods for the estimation of Sugars
 - D. When was G.M.P. implemented to Ayurveda?
 - E. What is I.S.O.
 - F. What is E.M.R.?

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

Pharmacognosy of Ayurvedic Drugs - III

Date: 03-09-2022
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 volatile oil, its properties, classification, tests and uses. 10
2. Answer any **One** out of **Two** questions. 10
 - A. What are secondary metabolism? Give their photochemical screening.
 - B. Give detailed account on environmental factors affecting quality of raw drugs.
3. Write short notes on any **Four** of the following : 20
 - A. Swet chandan and Twak.
 - B. Dioecious Plants.
 - C. Write a note on Umbelliferous fruits.
 - D. Ketones as volatile oil.
 - E. How genetic factors affecting the quality of raw drugs.
4. Answer any **Five** of the following : 10
 - A. Give the Latin Name, Family and Uses of Jatmansi.
 - B. Fibre and its classification with examples.
 - C. Silk fibre
 - D. Give the Botanical Name, Family and Uses of Lavang.
 - E. Valerian.
 - F. Give the Latin Name, Family and Uses of Dhanyak.

SECTION-B

5. Define Nutraceuticals and its importance in Ayurved. 10
6. Answer any **One** out of **Two** questions. 10
 - A. Define Resin, classify, give the properties and composition along with examples.
 - B. Detail account on Cancer and Swine flu with Plant remedies.
7. Write short notes on any **Four** of the following : 20
 - A. Diabetes
 - B. Narcotics
 - C. Pesticides
 - D. Swine flu
 - E. Toxic plants
8. Answer any **Five** of the following : 10
 - A. AIDS
 - B. Give the Botanical Name, Family and Uses of Kampilaka.
 - C. PUFA
 - D. EPA and DHA
 - E. Give the Latin Name, Family and Uses of Vacha.
 - F. Give the Latin Name, Family and Uses of Vidanga.
