

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Rasashastra and Bhaishajya Kalpana – IV (Ayurvedic Pharmaceutics)

Date: 26-07-2021
Monday

Time: 09:30 P.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 is meant by the STANDARDIZATION? Explain Standardization procedure of Ayurvedic drugs. 10
2. Answer any **One** out of two questions. 10
 - A Define Sandhana Kalpana and describe any one Asava/Arishta in detail.
 - B Define Basti and describe any one Basti-Kalpana in detail.
3. Write short notes on any **Four** of the following : 20
 - A. Upanaha
 - B. Dhumpana
 - C. Standard preparatory method of Ophthalmic product.
 - D. Sarjarasa Malahara.
 - E. Standard preparatory method of Kshara-Sutra.
4. Answer any **Five** of the following : 10
 - A. Types of Lepa
 - B. Types of Nasya – Kalpana
 - C. Siddhi lakhshan of Asava and Arishta.
 - D. Dose and duration of Kavala and Gandusha.
 - E. Storage and packaging of kshara-sutra.
 - F. Shelf life and dose of Lepa-gutika.

SECTION-B

5. Explain Naga-dhatu in detail. 10
6. Answer any **One** out of two questions. 10
 - A Write types, source, grahya-agrahya, shodhana-maran, pharmacological properties, dose, anupana and formulations of Tamra
 - B Write type, source, grahga-agrahya, shodhana-maran, pharmacological properties, dose, anupana and formulations of – Godanti.
7. Write short notes on any **Four** of the following : 20
 - A. Sudha
 - B. Pravala
 - C. Rasa-Bhasma
 - D. Somnathi Tamra Bhasma
 - E. Shodhana – Marana of Vanga
8. Answer any **Five** of the following : 10
 - A. Toxicity and antidote of Tamra
 - B. Toxicity and antidote of Naga.
 - C. Two formulation of Shukti
 - D. Two formulation of Tankana
 - E. Enlist names of Ratna
 - F. How to check a good quality of Diamond?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Dravyaguna –III (Ayurvedic Pharmacology)

Date: 27-07-2021
Tuesday

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? Discuss Controversy on Shankpushpi. 10
2. Answer any one out of two questions. 10
 - A Discuss Ayurvedic method of collection, preservation and storage of drugs and saviryatavadhi.
 - B Discuss Dravyasya Karmukatvam and Aushadhayogasya Karmukatvam.
3. Write short notes on any **Four** of the following : 20
 - A. Purification technique of Ahiphena.
 - B. Discuss concept of Vyavayi and Vikasi Karma.
 - C. Explain Sirovirechana karma in detail.
 - D. Discuss controversial aspect of Rasna.
 - E. Purification technique, vishakta lakshana and management of Bhallataka.
4. Answer any **Five** of the following : 10
 - A. Define Shonitasthapana karma.
 - B. Define controversy of Jivanti.
 - C. Define Shothohara karma.
 - D. What do you mean by Vayasthapana?
 - E. Write botanical name and purification technique of Chitraka.
 - F. Write about Yogavahi karma.

SECTION-B

5. Write detail description of Vasa. 10
6. Answer any one out of two questions. 10
 - A Write ingredients and collective action of Dasanga dhupa and Trisama.
 - B Write detail description of Gunja.
7. Write short notes on any **Four** of the following : 20
 - A. Write karma and prayoga of Trivrit and Jatamansi.
 - B. Write botanical name, family, part used, dose and formulation of Katukai.
 - C. Discuss Ashtadhatu.
 - D. Write botanical name, family, part used, single main action of Punarnava.
 - E. Write karma and prayoga of Karanja and Varuna.
8. Answer any **Five** of the following. (Botanical name, Family, Veerya and Single main action). 10
 - A. Putrajeevaka
 - B. Bakul
 - C. Karpasa
 - D. Rohitaka
 - E. Karveera
 - F. Vridhadharu.

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

Pharmacognosy of Ayurvedic Drugs - III

Date: 29-07-2021
Thursday

Time: 09:30 P.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 volatile oil, classify, give the properties and tests. 10
2. Answer any **One** out of **Two** questions. 10
 - A. What are fibres? Give the different types along with examples.
 - B. Define natural colorant along with examples and its uses in pharmaceutical industries.
3. Write short notes on any **Four** of the following : 20
 - A. Genetic factors affecting the quality of raw drugs.
 - B. Digestion and Decoction with examples.
 - C. Screening of secondary metabolites.
 - D. Role of temperature and altitude affecting on the raw drugs.
 - E. Aldehyde as volatile oil.
4. Answer any **Five** of the following : 10
 - A. Give the Latin Name, Family and Uses of Valerian.
 - B. Cremocarp
 - C. Lavang
 - D. Give the Latin Name, Family and Uses of Devdaru.
 - E. Plant growth inhibitors.
 - F. Give the Latin Name, Family and Uses of Ela.

SECTION-B

5. What are Nutraceuticals? Give its importance in Ayurved. 10
6. Answer any **One** out of **Two** questions. 10
 - A. Define resin, discuss their properties, composition, tests and storage organs.
 - B. Detail account on hallucinogens and allergens.
7. Write short notes on any **Four** of the following : 20
 - A. Tests for fibres
 - B. Cancer
 - C. Probiotics
 - D. Diabetes
 - E. Pesticides
8. Answer any **Five** of the following : 10
 - A. Give the Latin Name, Family and Uses of Vridhadaru.
 - B. Swine flu
 - C. Give the Latin Name, Family and Uses of Trivrit.
 - D. Murva
 - E. PUFA
 - F. Give the Latin Name, Family and Uses of Hingu.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Analysis of Ayurvedic Drugs –III

Date: 30-07-2021

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. Give analytical profile of Churna formulation and explain the estimation of reducing sugar in detail. 10
2. Answer any **One** out of two questions. 10
 - A. Explain determination of Volatile oil with diagram.
 - B. Explain Good Laboratory Practices in brief.
3. Write a short note on any **Four** of the following : 20
 - A. Refractive index
 - B. Iodine value
 - C. Enumerate all the parameters for Avaleha preparation and explain Loss on drying in detail
 - D. Alcohol content procedure in brief
 - E. Explain process standardisation of Oil preparation
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define: Specific gravity
 - B. Acid insoluble ash
 - C. Define: Quality
 - D. Enumerate five formulations containing Volatile oil
 - E. Enumerate types of Refractometers
 - F. Define: Standardization

SECTION-B

5. Differentiate between Quality control and Quality assurance. Explain the Q.A. in brief. 10
6. Answer any **One** out of two questions. 10
 - A. Instrumentation of N.M.R. spectroscopy
 - B. Discuss in detail: Stores as per Good Manufacturing Practices.
7. Write a short note on any **Four** of the following : 20
 - A. Building requirements according to Good Manufacturing Practices.
 - B. Applications of Atomic Absorption Spectroscopy
 - C. Estimation of reducing sugar content in Honey
 - D. Nitrogen content in Tea leaves
 - E. Concept of Quality
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Test for preservatives in Milk
 - B. Function of chopper in Atomic Absorption Spectroscopy
 - C. Describe Rose Gotleib method for fat content in Milk
 - D. Test for Artificial invert sugar
 - E. B.M.R.
 - F. What is ISO?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 02-08-2021

Time: 09:30 P.M. to 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. Classify the drugs used in the treatment of Cough with their mechanism of actions. 10
2. Answer any **One** out of two questions. 10
 - A. Classify the drugs used in treatment of Angina pectoris with their mechanism of actions.
 - B. Explain physiology of Urine formation. Classify Diuretics with mechanism of actions.
3. Write short notes on any **Four** of the following : 20
 - A. Drugs used in Bronchial asthma
 - B. Iron deficiency Anaemia
 - C. Classification of Antihypertensive drugs
 - D. Classification of Anti-coagulant drugs
 - E. Physiology of Coagulation
4. Answer any **Five** of the following : 10
 - A. Drugs used in Congestive cardiac failure
 - B. Antidiuretic drugs
 - C. Ayurvedic drugs used in Megaloblastic anemia
 - D. Antiplatelet agents
 - E. Ayurvedic drugs used in Kidney problems
 - F. Ayurvedic drugs as Blood purifier

SECTION-B

5. What is Diabetes Mellitus? Classify Anti-diabetic 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. Classify Non-steroidal Anti-inflammatory drugs with their mechanism of actions.
7. Write short notes on any **Four** of the following : 20
 - A. Classification of Anti-cancer drugs
 - B. Drug therapy for Psoriasis
 - C. Immunosuppressant drugs
 - D. Analgesic drugs
 - E. Estrogen and Progesterone
8. Answer any **Five** of the following : 10
 - A. Astringent
 - B. Ayurvedic drugs used in Skin diseases
 - C. Ayurvedic drugs used in Arthritis
 - D. Antimalarial drugs
 - E. Emollient
 - F. Antiviral drugs

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 03-08-2021

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 the various coating of Tablets and Coating defects. 10
2. Answer any **One** out of two questions. 10
 - A Describe ICH guidelines for stability study of pharmaceutical products.
 - B Write a detail note on Preformulation.
3. Write short notes on any **Four** of the following : 20
 - A. Evaluation parameters of Tablets
 - B. Pilot Plan Scale up techniques
 - C. Types of incompatibilities
 - D. Good Manufacturing Practices (GMP)
 - E. Pills and Pastilles
4. Answer any **Five** of the following : 10
 - A. Mottling effect
 - B. Disintegrating agents
 - C. Shelf life
 - D. Examples of Chemical incompatibilities
 - E. Lozenges
 - F. Partition coefficient

SECTION-B

5. Discuss the various essential requirements of Parenteral preparations. 10
6. Answer any **One** out of two questions. 10
 - A Explain design and concept of Novel Drug Delivery System (NDDS).
 - B Describe Microencapsulation with its various techniques for preparation.
7. Write short notes on any **Four** of the following : 20
 - A. Packaging materials used for Liquids and Solids
 - B. Soft gelatine capsule and Hard gelatine capsule
 - C. Evaluation parameters for Capsule
 - D. Targeted delivery system for Stomach and Colon
 - E. Evaluation parameters for Containers
8. Answer any **Five** of the following : 10
 - A. Osmotic pumps
 - B. Floating tablets
 - C. Use of Ambered colour glass
 - D. Vehicle for parenteral preparation
 - E. Define Targeted drug delivery system
 - F. Pyrogens

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Forensic pharmacy & Pharmaceutical Management

Date: 04-08-2021
Wednesday

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 the constitution and functions of Pharmacy Council of India under Pharmacy Act. 10
2. Answer any one out of two questions. 10
- A Write provisions to get patent rights as per Patents Act.
- OR**
- B Explain the salient features of Drugs and Magic Remedies acts and Rules.
3. Write short notes on any **Four** of the following : 20
- A. Pharmaceutical legislation in India
- B. Definition and scope of forensic pharmacy
- C. Pharmacovigilance and its scope
- D. What do you mean by Institutional Animals Ethics Committee?
- E. GMP
4. Answer any **Five** of the following :(two to three sentences) 10
- A. Loan license
- B. Misbranded Drugs
- C. Duties of Drug Inspector
- D. Pollution control area
- E. Drugs technical advisory board (DTAB)
- F. Registration of Pharmacist

SECTION-B

5. Discuss the role of Medical Sales Representatives in the promotion of Pharmaceutical products. 10
6. Answer any one out of two questions. 10
- A Explain modern techniques involved in inventory control
- OR**
- B Write in detail about factors affecting location of industry along with layout of building.
7. Write short notes on any **Four** of the following : 20
- A. Quality control
- B. Theories of motivations
- C. Communication process
- D. Principle of management
- E. Explain the principles of sales promotion
8. Answer any **Five** of the following :(two to three sentences) 10
- A. Maslow's theory
- B. Window Display
- C. Sampling
- D. Types of Leadership
- E. Detailing
- F. Budget
