

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : December-2019

Rasashastra and Bhaishajya Kalpana – IV (Ayurvedic Pharmaceutics)

Date: 16-12-2019
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. Define Sandhan Kalpana and explain general points, method and siddhi lakshan. 10
2. Answer any **One** out of two questions: 10
 - A. Explain Ophthalmological Preparation.
 - B. Explain Lepa Kalpana in detail with an Example:
3. Write a short note on any **Four** of the following : 20
 - A. Basti Kalpana.
 - B. Ksharsutra.
 - C. Sarjrasa Malhar.
 - D. Bilvadi Taila.
 - E. Explain Sura.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Difference between Gandush and Kaval.
 - B. Define standardization.
 - C. Types of nasal preparation.
 - D. Define upanaha.
 - E. Use of Legguti.
 - F. Types of Dhumpan.

SECTION-B

5. Explain Loha dhatu in detail. 10
6. Answer any **One** out of two questions: 10
 - A. Define Ratna Write its types Dosha and Praval in detail.
 - B. Describe sudha varga and write any three in detail.
7. Write a short note on any **Four** of the following : 20
 - A. Explain Bhavana in detail.
 - B. Somnathi Tamra.
 - C. Godanti.
 - D. Enlist Upratna and Explain Suryakant.
 - E. Svarnavang.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Enlist Sikta Varga.
 - B. Chemical composition and uses of Tankan.
 - C. Types of Mukta.
 - D. Types and chemical composition of pittal.
 - E. Ingredients of Sankha vati.
 - F. Two formulation of Saindhav.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : December-2019

Dravyaguna –III (Ayurvedic Pharmacology)

Date: 17-12-2019
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 of Rasna? Discuss Steps to resolve Controversy of Rasna. 10
2. Answer any **One** out of two questions. 10
 - A. Discuss Dravyasya Karmukatvam and Aushadhayogasya Karmukatvam according to Ayurveda.
 - B. Discuss various impurities, Purification technique and toxic effect of Vatsanabh.
3. Write a short note on any **Four** of the following : 20
 - A. Discuss the factors and steps to resolve the Controversy.
 - B. Discuss Concept of Raktaprasadana and Shonitasthapan Karma.
 - C. Write a note on purification technique of Kupila.
 - D. Write short note on Vayasthapan.
 - E. Discuss Controversial aspects of Brahmi.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Vishaghna Karma.
 - B. What do your mean by Sangyasthapan Karma.
 - C. Define Adhobhaghar Karma.
 - D. What do you mean by Romashatan Karma.
 - E. Write Botanical name and Vishakta Lakshan of Gunja.
 - F. Define Controversy of Amalavetas.

SECTION-B

5. Write detail description of Palasha. 10
6. Answer any **One** out of two questions. 10
 - A. Write the ingredients and collective action of Aushadhipanchamruta and Panchasama.
 - B. Write detail description of Punarnava.
7. Write a short note on any **Four** of the following : 20
 - A. Write Botanical name, family, part used, dose and formulation of asthishrinkhala.
 - B. Discuss Astagnadha.
 - C. Write karma and Prayog of Shala and Parsikayavani.
 - D. Write Botanical name, family, part used, and single main action of Karnja.
 - E. Write karma and Prayoga of Irimeda and Pushkarmoola.
8. Answer any **Five** of the following : (two to three sentences) Write Botanical name family, veerya and single main action. 10
 - A. Karveera
 - B. Gurjara
 - C. Rohitaka
 - D. Pilu
 - E. Sarala
 - F. Vrukhamla

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : December-2019

Pharmacognosy of Ayurvedic Drugs - III

Date: 18-12-2019
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. Discuss mutation, polyploidy and hybridization in detail. 10
2. Answer any one out of two questions. 10
 - A. Define natural colorant. Discuss Madder in detail.
 - B. What is volatile oil? Give a detail account on any one Umbelliferae fruit drug.
3. Write a short note on any **Four** of the following : 20
 - A. Brief introduction of phytochemicals.
 - B. Write short note on *Crocus*.
 - C. Explain Umbelliferous fruits are always collected from cultivated plants.
 - D. Plant growth regulators and inhibitors.
 - E. Write a note on Mishreyaka.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define digestion and decoction.
 - B. Give name of secondary plant metabolites.
 - C. Give botanical name, family and uses of cotton.
 - D. What is gliding growth?
 - E. Define plant growth inhibitors with examples.
 - F. What is cremocarp?

SECTION-B

5. Discuss role of herbs in Nutraceuticals. 10
6. Answer any one out of two questions. 10
 - A. Write an essay on Saral.
 - B. Detail description on plants that cure cancer.
7. Write a short note on any **Four** of the following : 20
 - A. Give different source of Nutraceuticals.
 - B. Give names of natural pesticides and write any two in detail.
 - C. Describe Insecticides & Rodenticides in brief.
 - D. Describe any five ayurvedic oral anti-diabetic herbal drugs?
 - E. Describe symptoms and causes of cancer.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Probiotic.
 - B. Give Latin name, family and uses of Vacha.
 - C. What is EPA & DHA?
 - D. Ayurvedic single drugs used in the treatment of Swine flu.
 - E. Give botanical name, family, and uses of silk.
 - F. Sulfur test for animal fibre.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : December-2019

Pharmaceutical Analysis of Ayurvedic Drugs –III

Date: 19-12-2019

Time: 02:30 P.M. to 05:30 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. What is Standardisation? How will you establish standards for Raw drugs used in Pharmaceuticals? 10
2. Answer any one out of two questions: 10
 - A. How will you standardise the "Triphala" churna? Enumerate the parameters and explain in details.
 - B. What is Ayurvedic Pharmacopoeia? Enumerate all the parameters included in Ayurvedic Pharmacopoeia and explain any three in details.
3. Write a short note on any **Four** of the following : 20
 - A. Chemical testing according to G.L.P.
 - B. Iodine Value
 - C. Evaluation parameters for Avleha preparation and explain Total sugar estimation.
 - D. Extractive values in different solvents
 - E. Refractive Index of Ghrita
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Acid value
 - B. Saponification value
 - C. Quality Control
 - D. Refractive index
 - E. S.O.P.
 - F. Validation

SECTION-B

5. Give analytical profile of Milk in detail. 10
6. Answer any one out of two questions: 10
 - A. Explain instrumentation of A.A.S. in brief with diagram.
 - B. Explain G.M.P. according to Ayurveda.
7. Write a short note on any **Four** of the following : 20
 - A. What is T.M.S. and why it is used as a reference standard?
 - B. Applications of N.M.R. spectroscopy
 - C. Estimation of Sugar in Honey
 - D. Nitrogen content in Tea leaves
 - E. Quality Assurance
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Test for Unboiled Milk
 - B. H.C.L. in A.A.S
 - C. Estimation of Tannin
 - D. Vitamin B complex
 - E. Sources of Vitamin E and Vitamin A
 - F. What is E.M.R.?

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B. Pharm(Ayu.) Final Year Examination : December-2019

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 20-12-2019
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. Explain bronchial asthma and classify drugs used with their mechanism of actions. 10
2. Answer any **One** out of two questions. 10
 - A. Describe pathophysiology of hypertension. Classify the drugs used in hypertension.
 - B. Classify anticoagulant drugs with their mechanism of actions.
3. Write a short note on any **Four** of the following : 20
 - A. Antitussive agents
 - B. Anti angina drugs
 - C. Blood coagulation
 - D. Diuretic drugs with their mechanism of actions
 - E. Congestive cardiac failure
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Ayurvedic drugs used in cough
 - B. Anti-arrhythmic drugs
 - C. Anti-platelet agents
 - D. Ayurvedic drugs used in anaemia
 - E. Ayurvedic drugs in cardiac disorders
 - F. Anti-diuretic drugs

SECTION-B

5. Describe the pathophysiology of inflammation and classify the non-steroidal anti-inflammatory drugs. 10
6. Answer any **One** out of two questions. 10
 - A. Describe Pathophysiology of Diabetes and classify drugs used with their mechanism of actions.
 - B. Classify antiviral drugs. Write detail notes on anti-retro viral drugs.
7. Write a short note on any **Four** of the following : 20
 - A. Estrogen and progesterone
 - B. Aminoglycosides with their mechanism of action
 - C. Immunosuppressant
 - D. Growth hormone
 - E. Analgesic drugs
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Ayurvedic drugs used as antimicrobial agents
 - B. Ayurvedic drugs used as immunomodulatory
 - C. Anti-cancer drugs
 - D. Anti-arthritis drugs
 - E. Superinfection
 - F. Ayurvedic drugs used in the treatment of skin diseases

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : December-2019

Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 21-12-2019

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. Explain the need of Stability study in Ayurvedic Pharmaceutical field with examples. Discuss the Regulatory guidelines for Stability study. 10
2. Answer any **One** out of two questions. 10
 - A. Write a detail note on Pilot Plan Scale-up techniques used in Pharmaceutical field?
 - B. Write a detail note on various types of Incompatibilities and different methods for solving the Incompatibilities.
3. Write a short note on any **Four** of the following : 20
 - A. Dry and Wet granulation methods for Tablet
 - B. Polymorphism and Crystallinity
 - C. Dentifrices and Lipsticks
 - D. Importance of Preformulation in Ayurvedic Pharmaceuticals
 - E. Pills and Lozenges
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Mottling effect
 - B. Shelf life
 - C. Eutectic mixtures
 - D. Enlist the evaluation parameters for Tablet
 - E. Master formula
 - F. Preservatives

SECTION-B

5. Write a detail note on Microencapsulation with its advantages and disadvantages. Enumerate the various techniques for Microencapsulation and explain any One in detail. 10
6. Answer any **One** out of two questions. 10
 - A. Explain the various evaluation methods for Capsule. Write detail note on Hard and Soft gelatine Capsule.
 - B. Write detail note on evaluation parameters for Containers used for Pharmaceuticals.
7. Write a short note on any **Four** of the following : 20
 - A. Osmotic tablet and Floating tablet
 - B. Evaluation methods for Parenteral preparations
 - C. Respiratory drug delivery system
 - D. Sustained release dosage forms
 - E. Mucoadhesive drug delivery system
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Osmotic pumps
 - B. Nanoparticles
 - C. Child resistance containers
 - D. Enlist the sterilization methods for Parenteral preparations
 - E. Intophoresis
 - F. Water for injection

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : December-2019

Forensic pharmacy & Pharmaceutical Management

Date: 23-12-2019
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 about constitution of Pharmacy Council of India (PCI). Give the functions and duties of PCI. 10
2. Answer any one out of two questions. 10
 - A Explain in details the manufacturing of Ayurvedic, patent and proprietary preparations in relation to excise duty act.
- OR**
- B Write in detail about the Pharmacy Act. 1948.
3. Write short notes on any **Four** of the following : 20
 - A. Misbranded Drugs
 - B. G.M.P.
 - C. Provisions and objectives of Poison Act
 - D. Objectives of Narcotics and psychotropic substances Act
 - E. Provisions applicable to cosmetics
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Schedule N
 - B. Define Management
 - C. Trade mark
 - D. Duties of Govt. Analysts
 - E. Product Patent
 - F. Loan license

SECTION-B

5. Write in detail about factors affecting location of industry along with layout of building. 10
6. Answer any one out of two questions. 10
 - A Write a detailed account of scientific advertising media and its importance.
- OR**
- B Enumerate personnel management and discuss the importance and benefits of staffing and directing.
7. Write short notes on any **Four** of the following : 20
 - A. Budgeting in manufacturing
 - B. Channels of distribution
 - C. Theories of motivations
 - D. Communication process
 - E. Record keeping
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Trade identification marks
 - B. What is feedback information?
 - C. Budget
 - D. Maslow's theory
 - E. Window Display
 - F. Piece Rate wage system
