

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May – 2019

Rasashastra and Bhaishajya Kalpana – IV (Ayurvedic Pharmaceutics)

Date: 20-05-2019
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. Describe Draksharista in detail. 10
2. Answer any one out of two questions. 10
 - A. What is Kshar-sutra? Write in detail.
 - B. Give standardization of a herbomineral formulation with an example.
3. Write a short note on any **Four** of the following : 20
 - A. Lepa
 - B. Shadbindu taila
 - C. Nasya
 - D. Dhumpan
 - E. Basti kalpana
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Kaval.
 - B. Dose and use of Takrarista.
 - C. Storage of Sarjrasa malhar.
 - D. What is Kanji?
 - E. State therapies for the eye.
 - F. Ingredients and use of Dashansamskar churna.

SECTION-B

5. Define Dhatu. Write types, samanya shodhan and maran of the dhatu and describe 10
Banga.
6. Answer any one out of two questions. 10
 - A. Write about Ayaskruti.
 - B. Describe any two of the Sudha varga dravya.
7. Write a short note on any **Four** of the following : 20
 - A. Muktaashukti pisti
 - B. Manikya
 - C. Rasa bhasma
 - D. Loknath rasa
 - E. Yavakshar
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Specific test for Tamra bhasma.
 - B. Ingredients of Shankhvati.
 - C. Shankha maran.
 - D. Dose and use of Punnarnavadi mandura.
 - E. Two formulations of each of Loha and Tankan.
 - F. Precautions to be taken while preparing Svarnabanga.

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Dravyaguna –III (Ayurvedic Pharmacology)

Date: 21-05-2019
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. Discuss various impurities, purification technique and toxic effect (with its management) of Gunja. 10
2. Answer any one out of two questions. 10
 - A. Discuss Ayurvedic method of collection and preservation of drugs.
 - B. What are the factors responsible for controversy of Shankhpushpi? Discuss steps to resolve controversy of Shankhpushpi.
3. Write a short note on any **Four** of the following : 20
 - A. Discuss concept of Dravyasya Karmukatvam.
 - B. Write a note on purification technique of Guggulu.
 - C. Discuss concept of Shirovirechanopaga and Shirovirechana.
 - D. Define Romashatan and Romasanjanana with suitable examples.
 - E. Discuss controversial aspects of Bramhi.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Yogavahi.
 - B. What do you mean by Shonitsthapana?
 - C. Write botanical name and Vishakta Lakshan of Bhallataka.
 - D. Define Bhanga and Ganja.
 - E. Define Ashukari.
 - F. Define Saveeryata Avadhi.

SECTION-B

5. Write the ingredients and collective action of Panchagavya and Aushadhipanchamruta. 10
6. Answer any one out of two questions. 10
 - A. Write detail description of Vasa.
 - B. Write detail description of Ahiphena
7. Write a short note on any **Four** of the following : 20
 - A. Discuss Ghritastaka.
 - B. Write botanical name, family, part used, dose, and formulation of Karchoora.
 - C. Write karma and Prayoga of Jatamansi & Jyotishmati.
 - D. Discuss concept of Trisama and Chatusama.
 - E. Write botanical name, family, part used and single main action of Kharjura.
8. Write botanical name, family, Veerya and single main action of any **Five** of the following : 10
 - A. Garjara.
 - B. Hrinsa.
 - C. Kamala.
 - D. Talmuli.
 - E. Pilu.
 - F. Bola.

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B. Pharm(Ayu.) Final Year Examination : May – 2019

Pharmacognosy of Ayurvedic Drugs - III

Date: 22-05-2019
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. Describe volatile oil in detail & give detail description of any one leaf drug containing them. 10
2. Answer any one out of two questions. 10
 - A. Describe continuous extraction method along with its industrial modifications.
 - B. Mention exogenous factors affecting the quality of crude drugs.
3. Write a short note on any **Four** of the following : 20
 - A. Distillation of volatile oil.
 - B. Identification, solubility and usage of Nylon.
 - C. Write a note on Mutation.
 - D. Classification of volatile oil.
 - E. Write down types of fibres.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define liquid extract.
 - B. Give botanical name, family, and uses of Manjistha
 - C. Identification test of Jute.
 - D. Define soft extract.
 - E. Define Plant growth regulators with examples.
 - F. Give Latin name, family and uses of Ela.

SECTION-B

5. Give classification of resin and write an account on Trivrit. 10
6. Answer any one out of two questions. 10
 - A. What is cancer? Describe it in detail.
 - B. Write detailed account on pesticides with suitable examples.
7. Write a short note on any **Four** of the following : 20
 - A. Write a note on Nutraceuticals.
 - B. Describe Fungicides in detail with its applications.
 - C. Criteria for control of diabetes with ayurvedic herbal drugs?
 - D. Discuss antioxidants in nutraceutics.
 - E. Write pest control methods in detail.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Prebiotic.
 - B. Give biological source and uses of Ginkgo.
 - C. Who are prone to infection with Swine flu?
 - D. Give Latin name, family and uses of Guggulu.
 - E. What is RT-PCR?
 - F. Give Latin name, family and uses of Haridra.

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Pharmaceutical Analysis of Ayurvedic Drugs –III

Date: 23-05-2019
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 a detail note on Standardisation and Quality control of Ayurvedic drugs. 10
Enlist the parameters for standardisation of Asava and Arishta preparations.
2. Answer any **one** out of two questions. 10
 - A. Explain the importance of Good Laboratory Practices (GLP) and Standard Operating Procedure (SOP) for Ayurvedic preparations.
 - B. Write a note on importance of Process control for Ayurvedic formulations. Enumerate the In-process control steps for Taila preparations.
3. Write a short note on any **Four** of the following : 20
 - A. Process standardization of Churna preparation
 - B. Estimation of % alcohol from Ayurvedic preparations
 - C. Parameters included in Ayurvedic Pharmacopeia of India
 - D. Saponification value and Refractive index
 - E. Standardization of the primary packaging materials for Ayurvedic drugs
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Difference between Avaleha and Paka preparations
 - B. Acid value
 - C. Enlist parameters for standardisation of Bhasma
 - D. Peroxide value
 - E. Validation
 - F. Qualitative tests for Tannins

SECTION-B

5. Write a detail note on Atomic Absorption Spectroscopy (AAS), its components, 10
advantages and usage in analysis of Ayurvedic Bhasma preparations.
6. Answer any **one** out of two questions. 10
 - A. Explain the principle, instrumentation and applications of NMR spectroscopy.
 - B. Describe the importance of GMP in Ayurvedic drug Industry. Explain the GMP standards of finished Pharmaceutical products.
7. Write a short note on any **Four** of the following : 20
 - A. Estimation of Tannin in Tea leaves
 - B. Applications of Mass spectroscopy in brief
 - C. Estimation of Sugar in Honey
 - D. Principle of Mass spectroscopy
 - E. Quality assurance
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Chemical shift
 - B. Chopper
 - C. T.M.S.
 - D. Test for preservatives in milk
 - E. Sources of Vitamin A
 - F. Paramagnetic shift and diamagnetic shift

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B. Pharm(Ayu.) Final Year Examination : May – 2019

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 24-05-2019
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. Classify anti-anginal drugs. Write mechanism of action of nitrates. 10
2. Answer any one out of two questions. 10
 - A. Describe pathophysiology of congestive cardiac failure. Write mechanism of action of digitalis.
 - B. Classify diuretics. Write mechanism of action of high ceiling diuretics.
3. Write a short note on any **Four** of the following : 20
 - A. Cough Suppressants
 - B. Heparin
 - C. Bronchodilators
 - D. Calcium channel blockers
 - E. Expectorants
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Ayurvedic drugs used for anaemia
 - B. Name two anti-arrhythmic drugs
 - C. Ayurvedic drugs for cardiovascular diseases
 - D. Pharyngeal demulcents
 - E. Name two coagulants
 - F. Name two angiotensin converting enzyme inhibitors

SECTION-B

5. Name aminoglycosides. Write their mechanism of action. 10
6. Answer any one out of two questions. 10
 - A. Classify anti-fungal drugs. Write mechanism of action of Polyene antibiotics.
 - B. Classify anti-thyroid drugs. Write mechanism of action of radioactive iodine.
7. Write a short note on any **Four** of the following : 20
 - A. Superinfection
 - B. Sulfonylureas
 - C. Immunosuppressants
 - D. Anti-retro viral drugs
 - E. Penicillins
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Write mechanism of action of chloroquine
 - B. Name hormones of posterior pituitary
 - C. Name two glucocorticoids
 - D. Name two anticancer drugs
 - E. Ayurvedic drugs for diabetes mellitus
 - F. Define - antibiotic

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Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 25-05-2019
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 Dry and Wet granulation methods for tablet. Write a note on Sugar coating & Film coating. 10
2. Answer any **one** out of two questions. 10
 - A. Explain the need of Stability study in Ayurvedic Pharmaceutical field with examples. Discuss the regulatory guideline for Stability study.
 - B. Write a note on importance of Preformulation in Ayurvedic Pharmacy. Explain Partition coefficient and Polymorphism in detail.
3. Write a short note on any **Four** of the following : 20
 - A. Pills & Lozenges
 - B. Pilot plan scale-up techniques
 - C. Methods for solving Incompatibilities
 - D. Dentifrices & Lipsticks
 - E. Incompatibility and their types
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Diluents and Glidant
 - B. Depilatories
 - C. Pastilles
 - D. Preservatives
 - E. Hygroscopicity
 - F. Master formula

SECTION-B

5. What are the essential requirements of Parenteral preparations? Explain various sterilization techniques used for Parenteral preparations. 10
6. Answer any **one** out of two questions. 10
 - A. Write a detail note on Sustained release dosage forms. Explain Targeted drug delivery system to GI tract in brief.
 - B. Explain various evaluation methods for Capsules. Write detail note on Soft gelatine and Hard gelatine capsule.
7. Write a short note on any **Four** of the following : 20
 - A. Advantages and disadvantages of Microencapsulation
 - B. Techniques for Microencapsulation
 - C. Evaluation parameters for Containers
 - D. Packaging materials used for liquids and solids
 - E. Osmotic tablet and Floating tablet
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Nanoparticles
 - B. Filling of capsule
 - C. Osmotic pumps
 - D. Child resistance containers
 - E. Iontophoresis
 - F. Water for injection

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Forensic Pharmacy and Pharmacy Management

Date: 27-05-2019
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. Enumerate the objectives of Pharmacy Act. Discuss the constitution of State Pharmacy Council and explain the procedure for registration as a registered Pharmacist in State Pharmacy Council. 10
2. Answer any one out of two questions. 10
 - A. Write down the Constitution of The Pharmacy Council of India.
 - B. Describe provisions and functions of Animal and Cruelty Act. Give the constitution of welfare committee for prevention of cruelty to Animal.
3. Write a short note on any **Four** of the following : 20
 - A. Describe cultivation, production and sale of Opium.
 - B. What are the provisions & objective of Poison Act?
 - C. Discuss "Pharmacy as a health care system".
 - D. Write short note on Requirements For the manufacturing license of drugs
 - E. Write short note on GMP
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Trade Mark
 - B. Define Advertisement
 - C. Pollution control Area
 - D. Schedule A
 - E. Loan License
 - F. Patent Medicine

SECTION-B

5. Explain Advertisement, Detailing, Sampling, Window & interior display, Advertisement to physicians, professional & consumers. 10
6. Answer any one out of two questions. 10
 - A. Explain modern techniques involved in inventory control.
 - B. Enumerate Personnel Management and Discuss the importance and benefits of staffing and directing.
7. Write a short note on any **Four** of the following : 20
 - A. Write note on Advertisement to physicians, professional & consumers etc
 - B. What is recruitment? Discuss the process of recruitment
 - C. Write note on Budgeting In manufacturing.
 - D. Write note on principles of management.
 - E. Write note on Location of Store.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Trade identification marks
 - B. What are 4 P's of marketing?
 - C. Detailing
 - D. What is Patent?
 - E. Maslow's theory
 - F. Basic tools of product promotion.
