

# GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

## Rasashastra and Bhaishajya Kalpana – IV (Ayurvedic Pharmaceutics)

Date: 17-05-2018

Thursday

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 is Kshar-sutra ? Describe it in detail. 10
2. Describe standardization of Herbal formulation. 10

OR

State types of Sandhan Kalpana and write about Asava-arista.

3. Write short notes on any **Four** of the following : 20
  - A. Draksharista.
  - B. Nasya.
  - C. Kaval-Gandusha and the difference between them.
  - D. Uttarbasti.
  - E. The general rules for application of Lepa Kalpana.
4. Answer any **Five** of the following :(two to three sentences) 10
  - A. What is Dhumpana ?
  - B. Bidalaka.
  - C. Ingredients and use of Gandhakadi Malhara.
  - D. An exception of each of Asava and Arishta Kalpana.
  - E. Chief sign which indicates that Kanji is prepared.
  - F. Ingredients and use of Mishraka Sneha.

### SECTION-B

5. Enlist the Ratna. Describe anyone Ratna in detail. 10
6. Describe Ayaskriti. 10

OR

Describe Banga dhatu in detail.

7. Write short notes on any **Four** of the following : 20
  - A. Loknath Rasa.
  - B. Somnathi Tamra.
  - C. Shankha Shodhana, Maran, dose, use and formulations.
  - D. Mukdashukti.
  - E. Sauvarchala lavan – preparation and use
8. Answer any **Five** of the following :(two to three sentences) 10
  - A. Two formulations of Loha and Yashada.
  - B. Dose and use of Svarnabhasma.
  - C. Colour of Loha bhasma and Rajat bhasma.
  - D. Ingredients and use of Shankhvat.
  - E. Ingredients and use of Svarnabanga.
  - F. Why is Svarnabanga named so ?

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# GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

## Dravyaguna –III (Ayurvedic Pharmacology)

Date: 18-05-2018  
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. Discuss controversial aspect of Amlavetas in detail 10
2. Answer any one out of two questions. 10
  - A. Discuss concept of Dravyasya karmuktavam and Aushadhayogasya karmukatvam.
  - B. Discuss various impurities, purification technique and toxic effect (with its management) of Jaypal.
3. Write a short note on any **Four** of the following : 20
  - A. Discuss factors responsible for controversy.
  - B. What are the purification techniques of Langali and Kupilu?
  - C. Define Akshepjanana and Saumansyajanana with suitable examples.
  - D. Write a note of collection and Saveeryata Avadhi of Ayurvedic drugs.
  - E. Discuss Raktaprasadana with suitable examples.
4. Answer any **Five** of the following : (two to three sentences) 10
  - A. Define Hikkanigrahana.
  - B. What do you mean by Vishakta lakshana ?
  - C. Define preservation.
  - D. Explain Nindrajanana with examples.
  - E. Write botanical name and family of Arka.
  - F. Write two examples of Shramhara drugs.

### SECTION-B

5. Write the botanical name, family, any two synonyms, pharmacological actions, part used, dose and formulations of Kappikachhu. 10
6. Answer any one out of two questions. 10
  - A. Write ingredients and collective action of Anjantritya and Adhyapushpa.
  - B. Write detail description of Dadima.
7. Write a short note on any **Four** of the following : 20
  - A. Kshirastaka.
  - B. Write botanical name, dosh karma, habit & habitat and dose of Jatiphala.
  - C. What are the difference between Panchasara and Panchsama?
  - D. Write rasapanchaka, Doshkarma, Karma & Prayoga of Palash.
  - E. Madanaphala.
8. Write botanical name, family, Veerya and single main action of any **Five** of the following : 10
  - A. Bakula.
  - B. Champaka.
  - C. Kampillaka.
  - D. Kumuda.
  - E. Murva.
  - F. Vruddhadaru.

# GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

## Pharmacognosy of Ayurvedic Drugs - III

Date: 19-05-2018  
Saturday

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. Discuss extraction of volatile oil in detail. 10
2. Answer any one out of two questions. 10
  - A. Define Extract and explain any two methods of preparation.
  - B. Define natural colorant. Explain Indigo as a source of natural colourant in detail.
3. Write a short note on any **Four** of the following : 20
  - A. Write a note on natural colourant.
  - B. Explain Goldbeater's test.
  - C. Enfleurage.
  - D. Explain types of extracts
  - E. Differentiate *Cinnamomum cassia* & *Cinnamomum zeylanicum*.
4. Answer any **Five** of the following : (two to three sentences) 10
  - A. What is SFE?
  - B. What is tincture?
  - C. Define fibres.
  - D. Give botanical name, family and uses of *Crocus*.
  - E. Give names of Exogenous or Ecological factors.
  - F. What is Racemization?

### SECTION-B

5. What do you mean by Nutraceuticals? Discuss in detail. 10
6. Answer any one out of two questions. 10
  - A. What is resin? Explain in detail a drug belonging to Convolvulaceae family.
  - B. What is Swine Flu? Describe in detail.
7. Write a short note on any **Four** of the following : 20
  - A. Write qualities of a good pesticide.
  - B. Write brief introduction of diabetes mellitus?
  - C. Write a note on natural allergens.
  - D. Give different source of Nutraceuticals.
  - E. Spread and causes of cancer.
8. Answer any **Five** of the following : (two to three sentences) 10
  - A. Give biological source and uses of Soyabean.
  - B. What is the symptoms of Swine flu?
  - C. Give Latin name, family and uses of Shallaki.
  - D. What is SIV?
  - E. Give Latin name, family and uses of Sunthi.
  - F. Give biological source and chemical constituents of Hingu.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

**Pharmaceutical Analysis of Ayurvedic Drugs –III**

Date:21-05-2018  
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. Explain determination of volatile oil in Lavangadivati. 10
2. Enumerate pharmacopoeial parameters enlisted in pharmacopeia. Explain any four of them in detail. 10

**OR**

Discuss the concept of G.L.P. in detail.

3. Write short notes on any **Four** of the following : 20
  - A. Need of instrumentation calibration according to G.L.P.
  - B. Estimation of reducing sugar in Sitopaladi churna.
  - C. Refractive index of Triphala ghrita.
  - D. Packaging of different formulations according to its nature.
  - E. Standardization of Asav and Arishta preparation.
4. Answer any **Five** of the following :(two to three sentences) 10
  - A. Peroxide value.
  - B. Specific gravity.
  - C. S.O.P.
  - D. Acetyl value.
  - E. Saponification value.
  - F. Enumerate five formulations containing alkaloids.

**SECTION-B**

5. G.M.P. in context to I.S.M. drugs. 10
6. Explain the principal and instrumentation of A.A.S. In detail. 10

**OR**

Describe instrumentation of N.M.R. with diagram in brief.

7. Write short notes on any **Four** of the following : 20
  - A. Tannin content in tea leaves.
  - B. Identification tests for Artificial and adulterated honey.
  - C. Applications of Mass spectroscopy.
  - D. Concept of quality assurance in brief.
  - E. Record of market complaints according to G.M.P.
8. Answer any **Five** of the following :(two to three sentences) 10
  - A. When G.M.P. is implemented to A.S.U. drugs ?
  - B. Gerber process for fat content.
  - C. Q.A. according to WHO-G.M.P.
  - D. Space requirement for Churna section as per G.M.P.
  - E. C.G.L.P.
  - F. B.M.R.

# GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

## Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 22-05-2018

Time: 09:30 A.M. to 12:30 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. Describe role of Renin Angiotensin System in hypertension. Write names & mechanism of action of Angiotensin converting enzyme inhibitors. 10
2. Answer any one out of two questions. 10
  - A. Describe electrophysiology of Cardiac muscle fibres. Name antiarrhythmic drugs.
  - B. Classify antianginal drugs. Write mechanism of action of Calcium Channel Blockers.
3. Write a short note on any **Four** of the following : 20
  - A. Mucolytics
  - B. Oral anticoagulants
  - C. Ayurvedic drugs acting on Kidney
  - D. Drugs for Cough
  - E. High ceiling diuretics
4. Answer any **Five** of the following : (two to three sentences) 10
  - A. Name two antiplatelet agents
  - B. What are expectorants?
  - C. Oral iron preparations
  - D. Name drugs used for seasonal asthma
  - E. Ayurvedic drugs for Bronchial Ashtma
  - F. Name two inotropic drugs

### SECTION-B

5. Classify Fluoroquinolones. Write their mechanism of action. 10
6. Answer any one out of two questions. 10
  - A. Name various Insulin preparations. Write mechanism of action of Insulin.
  - B. Classify anti-retroviral drugs. Write mechanism of action of Zidovudine.
7. Write a short note on any **Four** of the following : 20
  - A. Metformin
  - B. Thyroxine
  - C. Anti-malarial drugs
  - D. Semisynthetic Penicillins
  - E. Anti-amoebic drugs
8. Answer any **Five** of the following : (two to three sentences) 10
  - A. Name two anti-thyroid drugs.
  - B. Name two hormones of anterior pituitary gland.
  - C. Ayurvedic drugs as immunomodulators
  - D. Name two drugs which prevent blood coagulation.
  - E. Name two cytotoxic drugs.
  - F. Name two cephalosporins.

# GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

## Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 23-05-2018

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. Write a detail note on formulation and packaging of Pills, Pastilles & Lozenges. 10
2. Answer any **one** out of two questions. 10
  - A. Give a detail account on Incompatibility and their types. Write a note on different methods for solving the incompatibilities.
  - B. Write a detail note on Pilot plan scale-up techniques used in Pharmaceutical?
3. Write a short note on any **Four** of the following : 20
  - A. Additives used in Tablet formulation
  - B. Importance of Preformulation in Ayurvedic Pharmacy
  - C. Principles and methods of accelerated Stability studies
  - D. Regulatory guideline for Stability study
  - E. Dry and wet granulation methods for Tablet
4. Answer any **Five** of the following : (two to three sentences) 10
  - A. Mottling effect
  - B. Dentifrices & Depilatories
  - C. Polymorphism
  - D. Preservatives
  - E. Lipsticks
  - F. Capping and Lamination

### SECTION-B

5. Write a detail note on Sustained release dosage forms. Explain Targeted drug delivery system to GI tract in brief. 10
6. Answer any **one** out of two questions. 10
  - A. What are the essential requirements of Parenteral preparations? Explain various sterilization methods used for Parenteral preparations.
  - B. Write a detail note on various types of packaging materials used for liquids, solids and semisolids dosage forms.
7. Write a short note on any **Four** of the following : 20
  - A. Advantages and disadvantages of Microencapsulation
  - B. Additives for Parenteral preparations
  - C. Soft gelatine and Hard gelatine capsules
  - D. Air suspension method for Microencapsulation
  - E. Evaluation methods for Capsules
8. Answer any **Five** of the following : (two to three sentences) 10
  - A. Iontophoresis
  - B. Osmotic tablets
  - C. Child resistant containers
  - D. Water for injection
  - E. Coating material for Microencapsulation
  - F. Storage of Capsule

# GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2018 (NEW SYLLABUS)

## Forensic Pharmacy and Pharmacy Management

Date: 24-05-2018  
Thursday

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. Define patents. Write the provisions for getting the patent rights as quoted in Patents Act. 10

2. Write in detail about the Pharmacy Act. 1948. 10

### OR

Discuss about constitution of PCI. Give the functions and duties of PCI ?

3. Write short notes on any **Four** of the following : 20

- A. Prevention of cruelty to Animal Act.
- B. New drug Policy.
- C. Provisions applicable to cosmetics.
- D. Objectives of Medicinal and Toilet preparations Act.
- E. Pollution control area.

4. Answer any **Five** of the following :(two to three sentences) 10

- A. Define spurious drugs.
- B. What do you mean by Institutional Animals Ethics Committee ?
- C. Magic remedies.
- D. BMR record.
- E. Pharmacovigilance.
- F. Schedule H.

### SECTION-B

5. Define personnel management. Write an account on objectives and functions of personnel management. 10

6. Explain about sales promotion methods under taken at dealer's level as well consumer's level in pharmaceutical industry. 10

### OR

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. What is budgetary control.
- B. Promotional policies.
- C. Production planning.
- D. Buying and selling.
- E. Give a note on channels of distribution.

8. Answer any **Five** of the following :(two to three sentences) 10

- A. Various types of Advertisement.
  - B. Basic tools for product promotion.
  - C. Window Display.
  - D. International Trade.
  - E. Define Management.
  - F. Piece Rate wage system.
- .....