

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Rasashastra and Bhaishajya Kalpana – IV (Ayurvedic Pharmaceutics)

Date: 24-12-2018
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. State importance of standardization and describe standardization of herbal formulation with an example. 10
2. Answer any one out of two questions. 10
 - A. Enlist ophthalmic therapies and describe any two.
 - B. Write about Gomutrasav.
3. Write a short note on any **Four** of the following : 20
 - A. Dashansamskar churna
 - B. Kanji
 - C. Kshar-sutra
 - D. Kaval-Gandusha
 - E. Shukta sandhan and describe any two
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Ingredients of Saurashtri netrabindu with proportion.
 - B. Colour and use of Shadbindu taila.
 - C. Define Arista.
 - D. Enlist Madhya sandhan preparations.
 - E. State taste and use of Takrarista.
 - F. What is Uttarbasti?

SECTION-B

5. Describe Tamra dhatu in detail. 10
6. Answer any one out of two questions. 10
 - A. Name two formulations of each of the dhatu and describe any one formulation.
 - B. Write about Rasa bhasma.
7. Write a short note on any **Four** of the following : 20
 - A. Svarna
 - B. Loha bhasma
 - C. Mrgashringa
 - D. Shukti
 - E. Sauvarchal lavan nirman
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Colour of Svarna bhasma and Rajat bhasma.
 - B. Two formulations of each of Mukta and Shankha.
 - C. Enlist the Panchlavan.
 - D. Ingredients of Svayamagni loha bhasma.
 - E. Antidote of Naga bhasma.
 - F. Formula and English name of Godanti.

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Dravyaguna –III (Ayurvedic Pharmacology)

Date: 26-12-2018

Time: 09:30 A.M. to 12:30 P.M.

Wednesday

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 Pashanbheda in detail. 10
2. Answer any one out of two questions. 10
 - A. Discuss various impurities, purification technique and toxic effect (with its management) of Dhatura.
 - B. Discuss various impurities, purification technique and toxic effect (with its management) of Hingu.
3. Write a short note on any **Four** of the following : 20
 - A. Discuss controversial aspect of Rasna.
 - B. What are the purification techniques of Vacha?
 - C. Define Ubhaytobhaghara with suitable examples.
 - D. What do you mean by Sangyasthapana? Explain with examples.
 - E. Discuss Aushadhyogasya Karmukatvam with suitable examples.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Shothhara.
 - B. What do you mean by Impurities?
 - C. Define Storage.
 - D. Explain Dantadardhyakara with examples.
 - E. Write botanical name and family of Chitraka.
 - F. Write two examples of Prajasthapana drugs.

SECTION-B

5. Write the botanical name, family, any two synonyms, pharmacological actions, part used, dose and formulations of Varuna. 10
6. Answer any one out of two questions. 10
 - A. Write botanical name, family, any two synonyms, Rasapanchaka, Karma & Prayoga and part used of Devdaru.
 - B. Write detail description of Bala.
7. Write a short note on any **Four** of the following : 20
 - A. Astadhatu & Astaloha.
 - B. Astagandha & Dashangdhupa.
 - C. Aushdhipanchamruta.
 - D. Panchasiddhaushadha.
 - E. Panchasugandhika.
8. Write botanical name, family, Veerya and single main action of any **Five** of the following : 10
 - A. Chirbilwa.
 - B. Kankola.
 - C. Hansaraja.
 - D. Karpas.
 - E. Mulaka.
 - F. Sarja.

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Pharmacognosy of Ayurvedic Drugs - III

Date: 27-12-2018
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 volatile oil. Discuss morphology and microscopy of any one drug containing them. Draw only diagrammatic sketch and label. 10
2. Write a detail note on natural colourants. 10

OR

Discuss exogenous factors affecting quality of crude drugs.

3. Write short notes on any **Four** of the following : 20
- A. Write a note on synthetic fibres.
B. Write short note on preparation of extracts.
C. Differentiate Swet and Krishna Jeerak.
D. Discuss terpeness volatile oil.
E. What is mutation, polyploidy and hybridization ?
4. Answer any **Five** of the following :(two to three sentences) 10
- A. Give name of substitutes and adulterants of Tamalpatra.
B. What is racemization ?
C. Give chemical constituents and uses of Taxus baccata.
D. Give five name of Umbelliferous fruits.
E. Give botanical source, family and uses of one phenol volatile Oil drug.
F. What do you mean by phytochemical screening ?

SECTION-B

5. Define Resin. Discuss extraction and isolation of Resin with suitable examples. 10
6. Define Nutraceuticals. Give a detail account on it. 10

OR

Give a note on pesticides and discuss different method to control them.

7. Write short notes on any **Four** of the following : 20
- A. Write adulteration of Guggulu and procedure to detect it.
B. Discuss composition of Resin in detail.
C. Natural allergens.
D. Discuss medicinal properties of unorganized drugs.
E. Write a detail account on swine flu.
8. Answer any **Five** of the following :(two to three sentences) 10
- A. Define Prebiotic.
B. Give botanical source, family and uses of Trivrit.
C. What do you mean by herbicides ?
D. Write origin and meaning of Cancer.
E. Give name of two drugs that consists oleo-gum resin.
F. What is the full form of AIDS ?

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Pharmaceutical Analysis of Ayurvedic Drugs –III

Date: 28-12-2018

Time: 09:30 A.M. to 12:30 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. Write a detail note on Good Laboratory Practices (GLP) and Standard Operating Procedure (SOP) for Ayurvedic preparations. 10
2. Answer any **one** out of two questions. 10
 - A. Describe Standardisation and Quality control aspects of Ayurvedic drugs. Enlist the parameters for standardisation of Oil preparations.
 - B. How will you standardize the primary packaging materials for different Ayurvedic formulations? Explain with suitable examples.
3. Write a short note on any **Four** of the following : 20
 - A. Qualitative tests for Tannins and Alkaloid
 - B. Process control steps for Churna preparations
 - C. Pharmacopoeial parameters for Ayurvedic drugs
 - D. Estimation of % alcohol from Asava preparation
 - E. Refractive index and Specific gravity
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Saponification value
 - B. Quality Assurance
 - C. Process control
 - D. Monograph
 - E. Iodine value
 - F. Enlist parameters for standardisation of Bhasma

SECTION-B

5. Explain the importance of GMP in Ayurvedic Pharmaceutical Industry. Describe Building requirements and Quality control as per GMP. 10
6. Answer any **one** out of two questions. 10
 - A. Describe the principle of NMR spectroscopy. Explain shielding and deshielding effects in NMR.
 - B. Describe Atomic Absorption Spectroscopy (AAS), its method, advantages and applications in Ayurvedic field.
7. Write a short note on any **Four** of the following : 20
 - A. Estimation of Nitrogen content in Tea leaves
 - B. Chemical shift in NMR
 - C. Principle of Mass spectroscopy
 - D. Estimation of Fat content in Milk
 - E. Quality assurance
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Applications of Mass spectroscopy
 - B. Test for artificial invert sugar
 - C. Chopper in AAS
 - D. Sources of Vitamin D
 - E. H.C.L.
 - F. Magnetic anisotropy

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

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 29-12-2018
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. Classify anticoagulants. Write mechanism of action of heparin. 10
 2. Write pathophysiology of cardiac arrhythmia. Name some anti-arrhythmic drugs. 10
- OR**
3. Write short notes on any **Four** of the following : 20
 - A. Calcium channel blockers.
 - B. Diabetics.
 - C. Nitrates.
 - D. Salbutamol.
 - E. Ayurvedic drugs for anaemia.
 4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Ayurvedic drugs used for hypertension.
 - B. Name two cough suppressants.
 - C. Ayurvedic drugs used as diuretic.
 - D. Angiotensin converting enzyme inhibitors.
 - E. Name two anti cholinergics used in bronchial asthma.
 - F. Name two antiplatelet agents.

SECTION-B

5. Name antibiotics act by protein syntheses inhibition. Write their mechanism of action. 10
 6. Classify anti-malarial drugs write mechanism of action of chloroquine. 10
- OR**
- Classify anti thyroid drugs. Write mechanism of action of radioactive iodine.
7. Write short notes on any **Four** of the following : 20
 - A. Oral antidiabetic drugs used in Ayurved.
 - B. Hormones of posterior - pituitary.
 - C. Gluco corticoids.
 - D. Immunomodulators.
 - E. Thyroxine
 8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Name two anticancer drugs.
 - B. Name two hormones secreted from ovary.
 - C. Ayurvedic drugs for infertility.
 - D. Name two drugs used for amoebiasis.
 - E. Name two insulin preparations.
 - F. What is chemoprophylaxis ?

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Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 31-12-2018
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 the need of Stability study in Ayurvedic Pharmaceutical field with 10 examples. Discuss the regulatory guideline for Stability study. 10
2. Answer any **one** out of two questions. 10
 - A. Write a detail note on coating of Tablets and different coating defects of Tablet.
 - B. Write note on 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. Pastilles & Lozenges
 - C. Polymorphism and Crystallinity
 - D. Pilot plan scale-up techniques
 - E. Dentifrices and Lipsticks
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Eutectic mixtures
 - B. Enlist the evaluation parameters of Tablet
 - C. Pills
 - D. Depilatories
 - E. Hygroscopicity
 - F. Shelf life

SECTION-B

5. Write a detail note on Microencapsulation with its advantage and disadvantage. 10
Enumerate the various techniques for Microencapsulation and explain any one in detail.
6. Answer any **one** out of two questions. 10
 - A. Write detail note on evaluation parameters for Containers used for Pharmaceuticals.
 - B. Write a detail note on Mucoadhesives drug delivery system and Nanoparticles.
7. Write a short note on any **Four** of the following : 20
 - A. Additives used in Parenteral preparations
 - B. Evaluation methods for Capsule
 - C. Filling and storage of Capsule
 - D. Osmotic tablet and Floating tablet
 - E. Evaluation methods for Parenteral preparations
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Osmotic pumps
 - B. Core materials for Microencapsulation
 - C. Hard gelatine Capsule
 - D. Targeted release drug delivery system
 - E. Enlist sterilization methods for Parenteral preparations
 - F. Pyrogens

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

Forensic Pharmacy and Pharmacy Management

Date: 01-01-2019
Tuesday

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 the Pharmaceutical legislation; describe complete overview of historical backgrounds. 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.
 - B. Discuss about constitution of Pharmacy Council of India (PCI). Give the functions and duties of PCI.
3. Write a short note on any **Four** of the following : 20
 - A. Part II of the G.M.P.
 - B. Prohibition on import and export of Advertisement
 - C. Objectives of Narcotics and psychotropic substances Act.
 - D. Provisions applicable to cosmetics.
 - E. Spurious Drugs.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define Management.
 - B. Opium derivatives.
 - C. Duties of Govt. Analysts.
 - D. What is the Product Patent?
 - E. Schedule – N
 - F. Drugs technical advisory board (DTAB).

SECTION-B

5. Write a detailed account of scientific advertising media and its importance. 10
6. Answer any one out of two questions. 10
 - A. Define personal management. Write an account on objectives and functions of personal management.
 - B. Explain the terms "Market Research" What are the various methods of conducting market research?
7. Write a short note on any **Four** of the following : 20
 - A. Distinguish between departmental stores and multiple stores.
 - B. Write briefly about communication process.
 - C. What are the purposes and methods of training to the sales man.
 - D. Theories of motivations.
 - E. Record keeping.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define advertisement to Doctor.
 - B. Trade identification marks.
 - C. Define bulk drug and distributor.
 - D. What is feedback information?
 - E. Define the term 'Coding'
 - F. Generic drugs.
