

आयुर्वेद शिक्षण एवं अनुसंधान संस्थान, जामनगर

B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025

RASASHASTRA AND BHAISHAJYA KALPANA - III (AYURVEDIC PHARMACEUTICS)

Date : 11/02/2025

Time : 10:00 A.M. - 01:00 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 Apamarga Kshar. 10
2. Answer any one out of two questions. 10
 - A What is the importance of Pathya kalpana? Describe any three of them.
- OR**
- B Describe the materials used for Arkapatan yantra and Arka collection vessel.
3. Write short notes on any **Four** of the following : 20
 - A. Amrita ghrita
 - B. Triphala masi
 - C. Describe an example of Yusha
 - D. Madhyam paka sneha siddhi lakshan
 - E. Importance of Sneha kalpana
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Name two examples of Lavan kalpana
 - B. Name an example of Kharapaka in Sneha kalpana
 - C. Define Paniya kshar
 - D. Ingredients of Pinda taila
 - E. Uses of Pratisaraniya kshar
 - F. Which Sneha paka is useful for Nasya?

SECTION-B

5. Enlist the Sadharan rasa dravya and describe any one. 10
6. Answer any one out of two questions. 10
 - A Describe Rasagarbha pottali
- OR**
- B Write about Rasamanikya.
7. Write short notes on any **Four** of the following : 20
 - A. Preparation method of Gandhak druti
 - B. Bhallataka
 - C. Ahiphena
 - D. Kapardika shodhan and maran
 - E. Example of Nirgandha yoga of Kupipakva rasayan
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Give example of Visha varga dravya
 - B. Write English name and formula of any two Uparasa dravya
 - C. Antidote of Gauripashan
 - D. Describe the test for Hartala bhasma
 - E. Give two formulations of Gunja
 - F. Write two formulations of Kupilu

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B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025

DRAVYAGUNA - II (AYURVEDIC PHARMACOLOGY)

Date : 12/02/2025
Wednesday

Time : 10:00 A.M. - 01:00 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 *Bhavprakasha Nighantu* in detail. 10
2. Explain *Dugdha Varga* in detail. 10

OR

Explain basis of Nomenclature and Synonyms of drugs.

3. Write short notes on any **Four** of the following: 20
 - A. Discuss concept of *Samanpratyarabdha*.
 - B. *Stanyajanana* and *Stanyashodhana*.
 - C. *Dadhi Varga*.
 - D. Discuss *Abhishyandi* and *Pramathi*.
 - E. *Dhanvantari Nighantu*.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. *Arshoghna*.
 - B. Write any two examples of *Vichitrapratyarabdha Dravya*.
 - C. *Swedana*.
 - D. *Vidahi*.
 - E. Write types of *Takra*.
 - F. Write the author's name of *Madanpala Nighantu* and *Kaideva Nighantu*.

SECTION-B

5. Discuss *Gudduchi* in detail. 10
6. Discuss *Chandandwayama* in detail. 10

OR

Write in detail about *Vacha*.

7. Write short notes on any **Four** of the following: 20
 - A. Discuss *Ushira* in brief.
 - B. *Madhurtriphala* and *Madhurtraya*.
 - C. Write botanical name, family, *karma*, *prayoga* and varieties of *Sariva*.
 - D. *Panchamruta*.
 - E. *Lavana Panchaka* and *Ksharapanchaka*
8. Answer any **Five** of the following :(Write Botanical name, Family, Part Used and single main action.) 10
 - A. *Mudgaparni*
 - B. *Karvellaka*
 - C. *Nimbu*
 - D. *Ingudi*
 - E. *Bimbi*
 - F. *Agastya*

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B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025

PHARMACOGNOSY OF AYURVEDIC DRUGS - II

Date : 13/02/2025

Thursday

Time : 10:00 A.M. - 01:00 P.M.

Marks : 100

- Instructions: 1. Every question is compulsory.
2. Every question bears the marks written on the right side.

SECTION-A

1. Give a detail account on marine as a source of drug 10
2. Answer any one out of two questions. 10
 - A What is glycoside: discuss in detail. Write a note on drug containing anthraquinone glycoside
 - OR**
 - B Define substituents & adulterants with suitable examples and discuss the authentic method followed to confirm it?
3. Write short notes on any **Four** of the following : 20
 - A. What is froth number?
 - B. Discuss why siella is always stored in well filled closed containers?
 - C. Give a note on socotrine & zanziber aloe?
 - D. Discuss various adulterants of clove?
 - E. Discuss the various appearance of outer & inner surface bark.
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. What is quantitative microscopy?
 - B. What are the allied drug of digitalis?
 - C. Importance of bitter glycoside
 - D. What is sapotoxin?
 - E. What is o- glycoside?
 - F. Tests of siella

SECTION-B

5. What is fat? Explain any one drug containing it. 10
6. Answer any one out of two questions. 10
 - A What is tropane alkaloid? Discuss any one drug in detail containing them
 - OR**
 - B Write detail not on Tannin and describe any two drug in detail.
7. Write short notes on any **Four** of the following : 20
 - A. Write a note on fixed oil?
 - B. Differentiate *Cinnamomum zeylanicum* & *C. cacia*.
 - C. Write a note on history of Alkaloid?
 - D. Explain enzymatic hydrolysis is recommended in case of cynogenetic glycoside?
 - E. Discuss various source of drugs containing alkaloid?
8. Answer any **Five** of the following: (two to three sentences) 10
 - A. What is olar wax extractor?
 - B. What is drying oil?
 - C. Mention the chemical test to detect Strychnine?
 - D. What is white pepper?
 - E. What is lipid?
 - F. What is crystal?

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B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025

PHARMACOLOGY AND TOXICOLOGY OF AYURVEDIC DRUGS-I

Date : 14/02/2025

Friday

Time : 10:00 A.M. - 01:00 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 Bioavailability and Discuss factors affecting drug Absorption and Bioavailability. 10
 2. Define Receptors and its types. Write a detail note on Ion Channel linked Receptor. 10
- OR**
- Write a detail note on Plasma protein binding of drug.
3. Write short notes on any **Four** of the following : 20
 - A. Allergic reactions
 - B. Parenteral route of drug administration
 - C. Phase-I reactions of drug metabolism
 - D. Enumerate the Nature and Source of drugs with one example of each.
 - E. Drug eliminate through Kidney
 4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Define: Drug (WHO)
 - B. Side effects of drug with one example
 - C. Define Prodrug with example
 - D. Name any two drugs obtained from Minerals
 - E. Teratogenicity
 - F. First pass Metabolism

SECTION-B

5. Classify the Anti-epileptic drugs with their mechanism of actions. 10
 6. Describe pathophysiology of Vomiting and classify drugs used in its treatment. 10
- OR**
- Describe the Adrenergic Receptors and Neurotransmitters release in it.
7. Write short notes on any **Four** of the following : 20
 - A. Stages of Sleep cycle
 - B. Laxative and Purgative drugs
 - C. Hypnotic and Sedative drugs
 - D. Pathophysiology of Peptic ulcer
 - E. Classify Cholinergic and Anticholinergic drugs
 8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Ayurvedic drugs used in Anxiety
 - B. Classify Cholinergic Receptors
 - C. Ayurvedic drugs used as Antacid
 - D. Two examples of proton pump inhibitors
 - E. Appetizer
 - F. Ayurvedic drugs used in Psychosis

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B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025
PHARMACEUTICAL TECHNOLOGY OF AYURVEDIC DRUGS- I

Date : 15/02/2025
Saturday

Time : 10:00 A.M. - 01:00 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 liquid dosage form discuss in details? 10
2. Define emulsion and describe theories behind emulsification and identification test for emulsion? 10

OR

Define powders and discuss various methods of mixing powders?

3. Write short notes on any **Four** of the following : 20
 - A. Problems during dispensing of powders
 - B. Difference between flocculated and deflocculated suspension
 - C. Difference between syrup and elixirs
 - D. Ideal properties of stable suspension
 - E. Instability of emulsion
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Dosage form
 - B. Throat paints
 - C. Suspending agents
 - D. Preservatives
 - E. Eutectic mixtures
 - F. Liniments

SECTION-B

5. Define aerosol, discuss their components in detail ? 10
6. Describe various types of ointment base and method of preparation in detail ? 10

OR

Describe method of preparation and evaluation parameters of Suppository in detail ?

7. Write short notes on any **Four** of the following : 20
 - A. Role of propellant in aerosol
 - B. Fusion method
 - C. Types of aerosols
 - D. Difference between ointment and paste
 - E. Classification of suppositories
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Electuries
 - B. Cocoa butter
 - C. Types of actuator
 - D. Application of aerosols
 - E. Creams
 - F. Name of any two gelling agent

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B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025

PHARMACEUTICAL ANALYSIS OF AYURVED DRUGS - II

Date : 17/02/2025

Monday

Time : 10:00 A.M. - 01:00 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 chromatography? Define. Explain different plate manufacturing methods for TLC you studied. Write down the applications of TLC also. 10
2. Answer any one out of two questions. 10
 - A. Write down the whole instrumentation of classical column chromatography in brief.
 - B. Explain the principle and working of paper chromatography with diagram.
3. Write a short note on any **Four** of the following : 20
 - A. Detectors used in HPLC.
 - B. Differentiate between GSC and GLC and write the applications of GC.
 - C. Why Guard columns are used in HPLC?
 - D. Non Destructive detection techniques in Chromatography.
 - E. Chambers and chamber saturation according to HPTLC.
4. Answer any **Five** of the following : (two to three sentences) 10
 - A. Enumerate types of Paper chromatography.
 - B. R_f Value.
 - C. What is edge effect? Why it occurs?
 - D. Enumerate elution techniques used in HPLC.
 - E. Types of papers used in Paper chromatography.
 - F. Two spray reagents with its detecting class of chemicals.

SECTION-B

5. Explain the instrumentation of Infra red spectroscopy in brief. 10
6. Answer any one out of two questions. 10
 - A. Define refractive index and explain Abbe's refractometer in brief with diagram
 - B. Write the instrumentation of U.V. Spectroscopy in brief.
7. Write a short note on any **Four** of the following : 20
 - A. Different Burners used in Flame Photometry.
 - B. Applications of Nephelo and Turbidimetry.
 - C. Define mono chromators and explain different mono chromators in brief.
 - D. Applications of Infra red spectroscopy.
 - E. Applications of Flame emission spectroscopy.
8. Answer any **Five** of the following : (two to three sentences) 10
 - A. Phosphorescence.
 - B. Amplitude.
 - C. Nernst Glower.
 - D. Blue shift.
 - E. Enumerate types of Bending vibrations.
 - F. Wave length.

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B. PHARM. (AYU.) THIRD YEAR EXAMINATION - February - 2025

PHARMACEUTICAL ENGINEERING

Date : 18/02/2025
Tuesday

Time : 10:00 A.M. - 01:00 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 the construction, working, advantages and application of cutting roller mill? 10
2. Discuss the construction, working, advantages and application of any two emulsifiers? 10

OR

Describe construction, Working & applications of cyclone separator?

3. Write short notes on any **Four** of the following : 20
 - A. Methods of size separation
 - B. Mechanism of liquid mixing
 - C. Objective of size reduction
 - D. Various types of percolation methods
 - E. Cyclone separator
4. Answer any **Five** of the following :(two to three sentences) 10
 - A. Infusion
 - B. Decoction
 - C. Marc
 - D. Manstrum
 - E. Extraction
 - F. Leaching

SECTION-B

5. Discuss the construction, working, advantages and application of vaccume crystallizer? 10
6. Discuss in detail Importance of crystals for pharmaceutical & allied field? 10

OR

Construction, Working, Advantages, and applications of Vacuum evaporators?

7. Write short notes on any **Four** of the following : 20
 - A. Factors affecting selection of drying equipment.
 - B. Advantages & disadvantages of Tank crystallizer
 - C. Tunnel Dryers
 - D. Steam distillation
 - E. Mier's theory of super saturation.
8. Answer any **Five** of the following :(two to three sentences) 10
 - A. Define molecular distillation
 - B. Application of Evaporating pan
 - C. advantages & disadvantages of Tank crystallizer
 - D. Distillation under reduced pressure
 - E. Vacuum evaporators
 - F. factors affecting the process of evaporation
