

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. Pharm(Ayu.) First Year Examination : August-2022

PHARMACOLOGICAL AND TOXICOLOGICAL ASPECTS OF AYURVEDIC DRUGS.

Date: 25-08-2022  
Thursday

Time: 09:30 A.M. to 12:30 P.M.  
Marks: 100

Instructions: 1. Attempt any five questions  
2. All question carry equal marks

1. a. Write brief note on macro and micro environment for small animals in Animal house registered with CPCSEA. 20  
b. Explain role and composition Institutional Animal Ethics Committee.
2. Write list of experimental models used for assessment of Anti-depressant drugs in animals. Explain any Two models in detail. 20
3. a. Enlist various Ayurvedic drugs used in Diabetes and their evaluation techniques in rodent. Explain any One technique in detail. 20  
b. Enlist evaluation techniques used for Cardioprotective drugs in rodent. Explain any One model in detail.
4. Explain following with One model for each activity. 20
  - a. Anti-anxiety activity
  - b. Anti-parkinsonism activity
  - c. Analgesic activity
  - d. Anti-psychotic activity
5. Enumerate the list of Toxicity studies in animals. Explain any Two Toxicity studies in detail. 20
6. Write short notes on **any Two** of the following : 20
  - a. Enlist various drugs and evaluation techniques used for Anti-inflammatory activity. Describe any One animal model in detail.
  - b. Enlist animal models for Oestrogenic and Progestogenic like activity of drug.
  - c. Enlist Ayurvedic drugs used for Anti-ulcer and Anti-colitis activity and their assessment methods in rodent.

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**ADVANCES IN AYURVEDIYA AUSHADHA GUNADHARMA SHASTRA**

Date: 26-08-2022  
Friday

Time: 09:30 A.M. to 12:30 P.M.  
Marks: 100

Instructions: 1. Attempt any five questions.

2. Every question bears the marks written on the right side.

1. Write in detail about the basis of nomenclature and synonyms of drugs. 20
  
2. Write in detail about characteristics of Dravya, its important, Panchabhautic composition and reason for superiority of Dravyas. 20
  
3. Write in brief about Charaka and Susruta classification of drugs. 20
  
4. Write the botanical name, two synonyms, varieties, part used, Rasapanchaka and formulations of following drugs:  
Tulsi, Nimba, Erand, Chitraka 20
  
5. Describe the principles and methods of collection, preservation and storage of drugs. 20
  
6. Write short notes on any Two of the following 20  
A Sapta padartha  
B Panchvalkala and Panchtikta.  
C Rasapanchak and uses of Guduchi and Ashwagandha.

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**CLINICAL AND THERAPEUTIC ASPECTS OF AYURVEDIC DRUGS**

Date: 29-08-2022  
Monday

Time: 09:30 A.M. to 12:30 P.M.  
Marks: 100

- Instructions: 1. Attempt any five questions  
2. All question carry equal marks

1. Defining the term Dosha, mention in detail the Panchabhautika aspects of 20  
Tridosha, Saptadhatu, and Mala, along with the causes of vitiation of Kapha  
Dosha
2. Mentioning the cause, and symptoms of Sandhivata, describe in the detail the 20  
ingredients, method of preparation, dose, and Anupana of Yogaraja Guggulu
3. Describe in detail the causes of Udarashoola, and mention in detail any two 20  
Ayurvedic formulations used in its treatment.
4. Mentioning the types of Srotasa along with the general symptoms of Srotasa 20  
Dushti, describe in detail, the role of Sroto Dushti in the disease manifestation
5. Mentioning the causes and types of Prameha, describe in detail the ingredients, 20  
method of preparation dose, and Anupana of Mamejavaghana Vati
6. Write short notes on any Two of the following 20
  - A Ingredients and method of preparation of Vishamajvarantak Lauha
  - B Ingredients and method of preparation of Shvasakuthara Rasa
  - C Ingredients and method of preparation of any one Ayurvedic formulation used in  
the treatment of Mutravaha Sroto Dushti

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# INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. Pharm(Ayu.) First Year Examination : August-2022

## PHARMACOGNOSTIC AND PHYTOCHEMICAL ASPECTS OF AYURVEDIC DRUGS

Date: 30-08-2022  
Tuesday

Time: 09:30 A.M. to 12:30 P.M.  
Marks: 100

Instructions: 1. Attempt any five questions

2. All question carry equal marks

1. Give the detail aspects of standardization of Polyherbal formulations. Discuss various parameters in standardization of *Vati* and *Choorina*. 20
2. What are primary and secondary metabolites? Classify different types of metabolic pathways. Discuss on Shikimic acid pathway in detail. 20
3. Define Tissue culture. Discuss various Tissue culture techniques. Add note on Culture media and Tissue culture applications on Medicinal plants. 20
4. Discuss on various Plant origin colours, classification uses, and add a note on flavoring agents. 20
5. Give detailed how environmental and genetic factors affecting the quality of Raw-drugs. 20
6. Write short notes on any Two of the following 20
  - A. Nutraceuticals and its application.
  - B. Storage of Herbal drugs
  - C. Hepetoprotective herbal drugs.

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR  
M. Pharm(Ayu.) First Year Examination : August-2022

PHARMACEUTICAL CHEMISTRY

( ANALYSIS, Q.C. AND STANDARDISATION OF AYURVEDIC DRUGS)

Date: 01-09-2022  
Thursday

Time: 09:30 A.M. to 12:30 P.M.  
Marks: 100

Instructions: 1. Attempt any five questions.

2. Every question bears the marks written on the right side.

1. What are Alkaloids ? Explain qualitative tests for the identification, method of isolation and classification of Alkaloids in brief. 20
2. Discuss theory, instrumentation and applications of HPLC with diagram wherever necessary. 20
3. Explain different types of Vibrations in I.R. Spectroscopy. Explain the instrumentation and applications of infra-red spectrophotometer. 20
4. Discuss GMP as applicable to ayurvedic drugs. 20
5. Write the source, therapeutic uses and analytical profile of Hingula and Shilajit. 20
6. Write short notes on any Two of the following 20
  - (A) Applications of N.M.R.
  - (B) Components of G.L.P.
  - (C) Quality control and Quality assurance.

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**ADVANCES IN AYURVEDIYA AUSHADHA NIRMAN SHASTRA**

Date: 02-09-2022  
Friday

Time: 09:30 A.M. to 12:30 P.M.  
Marks: 100

**Instructions :** 1. All questions carry equal marks.  
2. Attempt any five questions.

1. State the temperature pattern in different Puta and describe how to use a muffle furnace. 20
2. Define Maran and the physico-chemical changes occurring therein. 20
3. Describe application of fundamental principles of Bhaishajya kalpana. 20
4. Write about paka pariksha of sneha kalpana with its scientific explanation. 20
5. Write two synonyms, toxicity, dose, antidote and formulations of the following- (5 marks each) 20
  - A. Bhallatak
  - B. Tamra
  - C. Jaypal
  - D. Kupillu
6. Define Sandhan, write its process and the changes occurring during sandhan. 20

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