

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2023

ADVANCES IN AYURVEDIYA AUSHADHA NIRMAN SHASTRA

Date : 03/08/2023

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

Thursday

Marks : 100

**Note :**

1. Attempt any five questions.
2. All question carry equal marks.
3. Draw annotated diagrams and structural formulae wherever necessary.

1. Describe in brief probable physico-chemical changes during *Dhatu Shodhana* 20
2. Comment on significance, nature (characteristics), types of *Parada Bhasma*, classical substitute of *Mrit Suta* and describe methods of *Parada Marana*. 20
3. Describe Pharmaceutico-analytical concerns in the preparation of *Sneha kalpana* in view of quality control and standardization (Raw material, in-process and product standardization) 20
4. Explain method and probable quality control of *Vatsanabha*, *Bhallataka* and *Kuchala shodhana* along with illustrative evidence based studies and mention their pharmacologically active/potentially toxic marketed phytochemical markers. 20
5. Explain utility, need and impact of different excipients for *Guti Vati* and *Guggulu Kalpana* and tablets with illustrative examples. 20
6. Write short notes on any **Two** of the following : 20
  - A. *Bhasma Pariksha*
  - B. Probable Physico-chemical changes in *Shodhana* of *Hingulu*, *Manahshila*, *Gairika*
  - C. Utility, principle of working and probable substitutes for *Patana yantra* (in present era)

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M. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2023

ADVANCES IN AYURVEDIYA AUSHADHA GUNADHARMA SHASTRA

Date : 04/08/2023

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

Friday

Marks : 100

Note :

1. Attempt any five questions.
2. All question carry equal marks.
3. Draw annotated diagrams and structural formulae wherever necessary.

1. Describe the classification of drug according to Ayurvedic principles. 20
2. Write about the era, author and description method along with peculiarity of Raj Nighantu. 20
3. Define the Rasa, Guna, Virya, Vipaka and Prabhav. Write the Difference Between Virya and Vipaka. 20
4. Write the definition, characteristic feature and Examples of Stambhana, Grahi, Lekhana, Anulomana and Pramathi Karma. 20
5. Write the Latin name, botanical description, any four synonyms, Raspanchak and Doshkarma of following drugs: 20
  - a. Pushkaramoola
  - b. Chitrak
  - c. Amalaki
  - d. Agnimantha
6. Write short notes on any Two of the following : 20
  - A. Lavana Panchaka and Kantakpanchmoola
  - B. Collection of Drug
  - C. Raspanchak and use of Shatavari and Pippali

INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2023

CLINICAL AND THERAPEUTIC ASPECTS OF AYURVEDIC DRUGS

Date : 05/08/2023

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

Saturday

Marks : 100

Note :

1. Attempt any five questions.
2. All question carry equal marks.
3. Draw annotated diagrams and structural formulae wherever necessary.

1. Write ingredients, dosage and Anupana of any four formulations useful in the Management of Rajyakshma. 20
2. Write ingredients, dosage, Anupana along with indication of Agnitundivati, Sitopaladichurna, Gojihvadi Kwatha and Sutshekhara Rasa. 20
3. Write ingredients, dosage, Anupana of any four formulations useful in the Jwara. 20
4. Write pathogenesis (Samprapti) and symptoms of Atisara (diarrhoea) and write two formulations along with its ingredients, dose and Anupana useful in its management. 20
5. Write pathogenesis (Samprapti) and symptoms of Sandhivata and write two formulation along with its ingredients, dose Anupana useful in its management. 20
6. Write short notes on any **Two** of the following : 20
  - A. Two formulation indicated in Mutrakricchra.
  - B. Cause and symptoms of Pranavaha Srotas vitiation.
  - C. Chitrakadi Vati, Avipattikara Churna – ingredients, dose and indications.

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2023

PHARMACOLOGICAL AND TOXICOLOGICAL ASPECTS OF AYURVEDIC DRUGS.

Date : 07/08/2023

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

Monday

Marks : 100

Note :

1. Attempt any five questions.
2. All question carry equal marks.
3. Draw annotated diagrams and structural formulae wherever necessary.

1. a. Enlist various models used for evaluation of Analgesic drugs in rodent. Explain any One model in detail. 20  
b. Enlist Ayurvedic drugs used as Anti-inflammatory and evaluation techniques used for such drugs in rodent. Explain any One model in detail.
2. Enumerate the list of experimental techniques used for Anti-anxiety and Anti-epileptic drugs in animals. Explain any One model for each activity in detail. 20
3. What are protocols used for evaluation of safety of Ayurvedic drugs in animals? Explain in detail. 20
4. Explain any One model for each activity. 20
  - a. Nephroprotective activity
  - b. Anti-psychotic activity
  - c. Sedative and Hypnotic activity
  - d. Anti-depressant activity
5. a. Enlist various models used for evaluation of Anti-diabetic drugs in rodent. Explain any One model in detail. 20  
b. Enlist Ayurvedic drugs used as Hepatoprotective and evaluation techniques used for such drugs in rodent. Explain any One model in detail.
6. Write short notes on **any Two** of the following 20
  - A Enlist animal models for Oestrogenic and Progesterogenic like activity of drugs.
  - B Requirements of CPCSEA for Animal house registration.
  - C Members of Institutional Animal Ethics Committee (IAEC), its role and responsibilities.

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2023

PHARMACEUTICAL CHEMISTRY ( ANALYSIS, Q.C. AND STANDARDISATION)

Date : 08/08/2023

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

Tuesday

Marks : 100

Note :

1. Attempt any five questions.
2. All question carry equal marks.
3. Draw annotated diagrams and structural formulae wherever necessary.

1. N.M.R. Instrumentation and specialised Experiments. 20
2. Separation techniques, classification of chromatographic methods, pros and cons of each chromatographic methods. 20
3. Critical process parameter (CPP) and critical quality attributes (CQA), how to validate critical methods and importance of each parameters. 20
4. Explain chemistry of Alkaloids with ways of classification. 20
5. Discuss GMP concept in context to organization, personal training and hygiene. 20
6. Write short notes on any Two of the following : 20
  - A. Analysis of Guggulu
  - B. Statistical process control
  - C. Glycosides

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INSTITUTE OF TEACHING AND RESEARCH IN AYURVEDA, JAMNAGAR

M. PHARM. (AYU.) FIRST YEAR EXAMINATION - August - 2023

PHARMACOGNOSTIC AND PHYTOCHEMICAL ASPECTS OF AYURVEDIC DRUGS

Date : 09/08/2023

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

Wednesday

Marks : 100

Note :

1. Attempt any five questions.

2. All question carry equal marks.

3. Draw annotated diagrams and structural formulae wherever necessary.

1. A. Discuss on Genetic factors affecting quality of Ayurvedic drugs. 10

B. How Gender affecting the quality of Dioecious Ayurvedic drugs. 10

2. What is Plant Bio-enhancers? Give the mechanism of Action of it. Discuss in detail on commonly used bio-enhancers of plant origin. 20

3. Write a short note on following. 20

i. Natural herbal colouring agents

ii. Nutraceuticals

iii. Rasayana Drugs

iv. Discuss my two nutritional medium used in Tissue culture

4. A. Discuss on purification methods used in for poisonous plants in Ayurveda. 10

B. Write a note on preparation Ayurvedic formulation of Galo satwa and Kutajghanvati. 10

5. Discuss in detail on Quality assessment of followings 20

i. Honey

ii. Kesar

iii. Kanyasaara

iv. Salniryas

6. Write short notes on any **Two** of the following : 20

A. Enumerate various parameter used for Standardization of Herbal Drugs by WHO and discuss in detail on Ash Value

B. Shikimik Acid pathway for Secondary plant metabolites

C. Hepatoprotective Herbal Drugs