

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

M. Pharm(Ayu.) First Year Examination August - 2017

**Advances in Ayurvediya Aushadha Gunadharm Shastra**

Date: 01-08-2017  
Tuesday

Time: 10:00 A.M. to 01:00 P.M.  
Marks: 100

- Instructions
1. Each question carry equal mark.
  2. Attempt any five questions.

1. Write about the basis of classification of drugs in Charaka and Sushruta Samhita. Discuss about the importance of knowledge on classification, in new drug development, in Ayurveda.
2. Write the definition, characteristic features with appropriate examples (drugs) of Deepana, Anulomana, Madakari and Vikasi Karma.
3. Write the latin name, distribution, parts use, two major chemical constituents, dosage and varieties (if any) of - Aswagandha, Pippali, Guggulu, Dhatura and Nimba.
4. Write the latin name, parts use, three major pharmacological actions, uses and formulations of Vidanga, Eranda, Shirisha, Parijata and Rasna.
5. Write the name of the individual constituents (with botanical name), properties, actions and indications of Trunapanchamula, Vara, Panchakola and Panchavalkala.
6. Write short notes :
  - A. Panchabhoutika constituents of six Rasa.
  - B. Samanya Pratyarabdha.
  - C. Kshara.
  - D. Bhavaprakasha Nighantu.



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**Advances in Ayurvediya Aushadha Nirman Shastra**

Date: 02-08-2017  
Wednesday

Time: 10:00 A.M. to 01:00 P.M.  
Marks: 100

- Notes (1) Attempt any five questions.  
(2) All questions carry equal marks.

1. Describe the concept of Marana. Explain the Marana process of Vanga.
2. Describe the concept of Sodhana, explain the role of media used in the Shodhana process.
3. What is Ashtasamskara of Parada ? How it can remove the doshas and increase the potency of Parada. Explain in detail.
4. Describe the Adharabhuta Siddhanta (fundamental principles) of Bhaishajya Kalpana.
5. Write the Siddhi Lakshana of Sneha Kalpana, Avaleha Kalpana and Sandhana Kalpana. Explain their scientific background.
6. Write differences between the following Kaplanas -
  - (a) Kwatha & Kshirapaka.
  - (b) Arka & Phanta.
  - (c) Yusha & Swarasa.
  - (d) Asava & Arishta.



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M. Pharm(Ayu.) First Year Examination August - 2017

**Clinical and Therapeutic Aspects of Ayurvedic Drugs**

Date: 03-08-2017

Thursday

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

Marks: 100

**Instruction :** All question carry equal marks.

**SECTION - A**

1. Defining terms 'Dosha' and 'Srotas', establish their role in maintenance of health and production of disease.
2. Mentioning the causes and clinical features of Raktavaha Sroto Dushti, write the details of any three formulations used in the treatment of Kamala (jaundice).
3. Answer in brief -
  - A. Details of any two herbo-mineral preparations used in Pandu Roga.
  - B. Ingredients, dose and indication of Gandhaka Rasayana.
  - C. Details of any two herbo mineral preparation used in Jvara.
  - D. Ingredients, dose and indications of Agnitundi Vati.
4. Mentioning the causes and clinical feature of Sandhivata, write in detail any three formulations used in its treatment.
5. Mention ingredients, dose, Anupana, indications & contraindications of following formulations -
  - (a) Shankha Vati
  - (b) Lavana Bhaskar Churna



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M. Pharm(Ayu.) First Year Examination August - 2017

**Pharmacognostic and Phytochemical Aspects of Ayurvedic Drugs**

Date: 04-08-2017  
Friday

Time: 10:00 A.M. to 01:00 P.M.  
Marks: 100

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

1. What are the challenges in standardization of poly-herbal formulation ? Discuss on various standardization parameters used for the standardization of poly-herbal formulation of Vati and Gutika.
2. Differentiate between primary and secondary plant metabolites and classify various metabolic pathways for secondary plant metabolites. Discuss on shikimic acid pathway with suitable examples.
3. Name the diocious Ayurvedic plants of family menispermaceae and discuss with examples on effect of gender on quality of diocious plants.
4. Differentiate between Rasayana therapy and Rasayana drugs. Discuss in detail on Rasayana drugs.
5. Classify the various tissue culture techniques. Write a detailed note on nutritional requirement of culture media with importance of each ingredient.
6. Write note on preparation of formulation of following Ayurvedic drugs :
  - A. Triphala Churna.
  - B. Kanyasara.
  - C. Guduchi Satva.
  - D. Rasanjana.
7. Write a note on any **two** of the following :
  - A. Poisonous plants – Ayurveda.
  - B. Anti-diabetic herbal drugs.
  - C. Natural herbal colourants.

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M. Pharm(Ayu.) First Year Examination August - 2017

**Pharmaceutical Chemistry (Analysis, Q.C. & Standardisation)**

Date: 05-08-2017  
Saturday

Time: 10:00 A.M. to 01:00 P.M.  
Marks: 100

**Note :-**

- Attempt any five questions.
- All questions carry equal marks.
- Draw annotated diagrams and structural formulae wherever necessary.

- 1 Discuss chemical nature of glycosides as an important metabolic product of plant.
- 2 Discuss theory, instrumentation and applications of HPLC.
- 3 Explain the functions of different mass-analyser frequently used in mass spectrometry.
- 4 Explain total quality management (TQM) in detail.
- 5 Analytical methods and its validation. Explain its importance in Ayurveda.
- 6 Write short note on any two.
  - (A) Process control.
  - (B) Premises, location, design and layout in GMP.
  - (C) Instrumentation of double beam UV spectrophotometer.

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M. Pharm(Ayu.) First Year Examination August - 2017

**Pharmacological and Toxicological Aspects of Ayurvedic Drugs**

Date: 08-08-2017  
Tuesday

Time: 10:00 A.M. to 01:00 P.M.  
Marks: 100

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

1. Name some important laboratory animals, mention experiments in which they can be used and what are the ethical guidelines for carrying out pharmacology aspects.
2. Enumerate the different texts used to assess antiepileptic activity of a test drug. Describe any two methods briefly.
3. Give a detailed account of how test drug are evaluated for anti-ulcer activity.
4. Enumerate the method employed for testing anti-anxiety activity. Describe briefly any two of them.
5. Describe evaluation techniques for assessing diuretic activity. Give five names of Ayurvedic drugs having diuretic activity.
6. Write short note on any **Four** of the following :
  - A. LD<sub>50</sub> value.
  - B. Screening drug effect on gross behaviour.
  - C. Hypnotic potentiation test.
  - D. Name of ten hepato-protective Ayurvedic drugs.
  - E. Isolated guineu pig ileum.

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M. Pharm(Ayu.) First Year Examination August - 2017

**Fundamental Principles of Ayurveda  
(B.Pharm. Modern Students Only)**

Date: 09-08-2017  
Wednesday

Time: 10:00 A.M. to 01:00 P.M.  
Marks: 100.

- Attempt all questions.
- All questions carry equal marks.

- 1 Describe the practical applicability of 'Samanya' and 'Vishesha' in pharmaceutical sciences.
- 2 Explain the concept of 'Disha' along with its importance.
- 3 What is the importance of 'Guna' in pharmaceutical sciences ?
- 4 Explain the concept of 'Samvaya' along with its importance.
- 5 Write short notes.
  - (A) Concept of Anubandha.
  - (B) Definition of Ayurveda.
  - (C) Application of Karnas.
  - (D) Utility of Karma.

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