

GUJARAT AYURVED UNIVERSITY

JAMNAGAR

M. Pharm(Ayu.) First Year Examination September - 2016

Fundamental principles of Ayurveda

Date: 09-09-2016
Friday

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

Note :-

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

- 1 Describe the practical applicability of 'Gurvadi Gunas' in pharmaceutical sciences.
- 2 Explain the concept of 'Mana' along with its importance.
- 3 What is the importance of 'Samanya' in pharmaceutical sciences ?
- 4 Explain the concept of 'Bheshaja' along with its importance.
- 5 Write short notes.
 - (A) Concept of Karyayoni.
 - (B) Types of Ayurveda.
 - (C) Application of Karma.
 - (D) Utility of Karana.

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M. Pharm(Ayu.) First Year Examination September - 2016

Pharmacological and Toxicological Aspects of Ayurvedic Drugs

Date: 08-09-2016
Thursday

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. A. Write various models used to screen anti-epileptic activity of test drugs. Write brief note on "MES and Pentylenetetrazole-induced seizure models".
B. Carcinogenicity
2. A. Enlist various animal models used to screen anti-diabetic and hepatoprotective activity of drugs.
B. Write in detail on Streptozotocine and Alloxan-induced diabetes models.
3. Explain any one animal model used to screen each of the following (Any **Four**) :
 - A. Anti-psychotic activity
 - B. Adaptogenic activity
 - C. Learning and memory activity
 - D. Diuretic activity
 - E. Wound healing activity
4. A. Enumerate the different tests employed to assess sedative and hypnotic activity of drugs. Describe any one such model in detail.
B. Acute toxicity test
5. A. Name five Ayurvedic drugs/formulations and evaluation methods for Cardioprotective and Anti-anxiety activity.
B. Describe any two models used to screen anti-anxiety activity of drugs in detail.
6. Explain in detail on various standard conditions for laboratory animals in Animal House (diet, ethics, macro and micro environmental factors etc.)

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M. Pharm(Ayu.) First Year Examination September - 2016

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

Date: 07-09-2016

Wednesday

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 is called carbohydrates ? Classify carbohydrates write method to determine nature of ring system in carbohydrates.
2. Explain roll of counter current distribution in separation technique.
3. A. Explain the principles of Thin Layer Chromatography (TLC) explain separation of volatile oil by TLC.
B. Discuss the principle of NMR. Discuss different shift in NMR with examples.
4. Write different tools of quality control and different ways to define quality.
5. Write in brief about the following :
 - A. Discuss the principle and instrumentation of mass spectroscopy.
 - B. What is protein ? Classify proteins How α -amino acids are obtained from protein
6. Write short note on any **Two** of the following :
 - A. HPTLC.
 - B. Micro extraction process.
 - C. Quality control and quality assurance.

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M. Pharm(Ayu.) First Year Examination September - 2016

Pharmacognostic and Phytochemical Aspects of Ayurvedic Drugs

Date: 06-09-2016
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. Write a brief note with suitable example on factor effecting on collection of herbal drugs and what are the impact of it on quality of herbal drugs.
2. Write a note on poisonous plants used as Ayurvedic drugs and method of purification of it.
3. Classify various types of Diabetes. Write a note on various plants used to cure the Diabetes Mellitus.
4. What is Rasayana drugs and Rasayana therapy ? Write a note in detail on Rasayana therapy.
5. Write a short note on following (any two)
 - A. Nutraceuticals.
 - B. Plant tissue culture techniques.
 - C. Bio-availability enhancers in Ayurvedic drugs.
6. What are the secondary plant metabolites ? Discuss in detail on mevalonate pathways.

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M. Pharm(Ayu.) First Year Examination September - 2016

Clinical and Therapeutic Aspects of Ayurvedic Drugs

Date: 03-09-2016
Saturday

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

Instructions : 1. All questions carry equal marks.

1. Write causes, brief pathogenesis, clinical features and general line of treatment of Disease Grahani along with details of two formulations used into its management.
2. Write causes and brief pathogenesis along with clinical features and general line of treatment of Kasa with details of three commonly used formulations indicated in its treatment.
3. Write short notes on -
 - A. Ingredients, dose and indication of Shwasa Kuthara Rasa.
 - B. Ingredients, dose and indication of Simhanada Guggulu.
 - C. Ingredients, dose and indication of Vyaghri Haritaki.
 - D. Ingredients, dose and indication of Saptarangyadi Vati.
4. Mentioning symptoms of Hypertension along with brief pathogenesis, write details of two formulations each for Hypertension and Hypotension.
5. Write short notes on -
 - A. Define word 'Mala' and write symptoms of Rasa and Rakta Dhatu Kshaya.
 - B. Write ingredients, dose and indication of Gokshuradi Guggulu.
 - C. Ingredients, dose and indication of Agnitundivati.
 - D. Ingredients, dose and indication of Chandraprabhavati

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M. Pharm(Ayu.) First Year Examination September - 2016

Advances in Ayurvediya Aushadha Nirman Shastra

Date: 02-09-2016
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. Write definition, concept and importance of Shodhana and Marana.
2. Enlist Parada Ashta Samskara and describe any three Samskara with their utility.
3. Describe fundamental principles of Bhaishajya Kalpana in brief.
4. Describe Sneha Paka Vidhi, Sneha Siddhi Lakshanas and its quality control parameters.
5. Write short notes on the following :
 - A. Makshika – Shodhana, Marana.
 - B. Vatsanabha – Shodhana, therapeutic and Lethal dose.
 - C. Gandhaka, Gairika – Shodhana.
 - D. Patana Yantra.
6. Write short notes on the following :
 - A. Types of Sandhana Kalpana with suitable examples.
 - B. Diluents and Binders for Vati.
 - C. Hima and Phanta Kalpana.
 - D. Avaleha Siddhi Lakshana.

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M. Pharm(Ayu.) First Year Examination September - 2016

Advances in Ayurvediya Aushadha Gunadharm Shastra

Date: 01-09-2016
Thursday

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. Write in brief about the botanical description of individual dravyas of Panchatikta along with their uses and different formulations.
2. Explain about the superiority of Dravya and write its characteristic importance and Panchabhautika composition.
3. Write in brief about the basis of nomenclature and Paryaya (synonyms) of dravyas.
4. Write in detail about Raj Nighantu.
5. Write the botanical description, synonyms, chemical composition, Rasapanchaka and uses of following Dravyas,
 - A. Guduchi.
 - B. Gambhari.
 - C. Asana.
 - D. Shirisha.
6. Define following Karmas with examples from ancient and modern texts.
 - A. Lekhana.
 - B. Pramathi.
 - C. Anulomana.
 - D. Pachana.
