

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Second Year Examination : November - 2016

Rasashastra & Bhaishajya Kalpana – II (Ayurvedic Pharmaceutics)

Date: 28-11-2016
Monday

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

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

SECTION-A

1. Describe Churna Kalpana in detail and write about Sitopaladi Churna. 10
2. Answer any one out of two questions. 10
 - A. Describe the types and preparatory method of Vati Kalpana. Write about Samshamani Vati.
 - B. Explain the importance and method of Avleha Kalpana with Siddhi Lakshana.
3. Write a short note on any **Four** of the following : 20
 - A. Write Varti Kalpana in detail.
 - B. Write short note on Gulab Sharkara.
 - C. Describe the different preparatory methods of Guggulu Kalpana.
 - D. Describe the different packaging and storage techniques of prepared medicines.
 - E. Write Guduchi Satva in detail.
4. Answer any **Five** out of six questions : 10
 - A. Shelf Life of Chyavanaprash Avaleha.
 - B. Use of Hingvashtaka Churna.
 - C. Write the ingredients of Triphala Guggulu.
 - D. Dose of Panaka Kalpana.
 - E. Use of Mustadi Pramthya.
 - F. Dose of Guda Kalpana.

SECTION-B

5. Write the aim of Ashta Samskara of Parada. Give description about 5th Samskara of Parada. 10
6. Write any **one** out of two questions : 10
 - A. Describe Amritikarana, Lohitikarana and Satvapataana of Abhraka.
 - B. Define the word 'Parpati'. Write manufacturing process of Rasa Parpati.
7. Write a short note on any **Four** of the following : 20
 - A. Different Shodhana procedures.
 - B. Laghu Vasant Malini Rasa.
 - C. Write any one method for Hingulottha Parada.
 - D. Write short note on Marana and Jarana.
 - E. Makshika Shodhana and Marana.
8. Answer any **Five** of six questions : 10
 - A. Write examination of Kajjali.
 - B. Write the acceptable variety of Abhraka.
 - C. Tamra Parpati – ingredients and use.
 - D. Explain Apunarbhava examination.
 - E. Write chemical formula of Tuttha.
 - F. Tribhuvana Kirti Rasa – ingredients and dose.

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Dravyaguna – I

Date: 29-11-2016
Tuesday

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

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

SECTION-A

1. Write essay on any two Karmas related to Panchakarma. 10
2. Answer any one out of two questions. 10
 - A. Describe classification of Ahara and Aushadha Dravya according Bhavaprakasha.
 - B. Write importance of Dravya in context of Panchamahabhuta.
3. Write a short note on any **Four** of the following : 20
 - A. Mention qualities of Shita Veerya and Ushna Veerya.
 - B. Give detail description of Madhura Rasa.
 - C. Compare Grahi and Stambhana Karma with examples.
 - D. Write essay on Shrira Guna.
 - E. Mention Dravya Bheda according to its Yoni(origin).
4. Answer any **Five** of the following : 10
 - A. Define Dravya according to Chetana-Achetana Bheda.
 - B. Write about two drugs which act through Prabhava.
 - C. Write about Manda Veerya with examples.
 - D. Write general properties of Dahashamaka Dravya.
 - E. Enlist two Dravyas having Lavana Rasa.
 - F. Give four examples of Medhya Dravyas.

SECTION-B

5. Write about Pancha Panchamula. 10
6. Answer any one out of two questions. 10
 - A. Give five Dravya having SheetaVeerya and Katu Vipaka with their Botanical name and family.
 - B. Write botanical name, family, part used and main action of Ketaki, Puga, Taruni, Shurana, Tavakshira.
7. Write a short note on any **Four** of the following : 20
 - A. Write external morphological description of Shyonaka with its habitat.
 - B. Arka.
 - C. Panchakola.
 - D. Any two Dravyas from Solanaceae family.
 - E. Write essay on Vidanga.
8. Answer any **Five** of the following : 10
 - A. Write four synonyms of Shalaparni.
 - B. Write ingredients of Trikarshika.
 - C. Write Rasa Panchaka of Nimba.
 - D. Write about dose and two formulations of Ela.
 - E. Write about varieties of Chitraka.
 - F. Write chemical composition of Shatavari.

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B. Pharm(Ayu.) Second Year Examination : November - 2016

Pharmacognosy of Ayurvedic Drugs – I

Date: 30-11-2016
Wednesday

Time: 09:30 A.M. to 12:30 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 the modification of stem and root ? Enumerate your answer with suitable examples. 10
2. Answer any one out of two questions. 10
 - A. Classify plant kingdom in detail.
 - B. Describe the diagnostic character of Caesalpiniaceae family and give morphological characters of any one medicinal plant belongs to it.
3. Answer any **Four** out of five questions : 20
 - A. Write a note on mineral as a source of drug.
 - B. Discuss various shapes of leaf.
 - C. Discuss different method of cultivation.
 - D. Write a note on Dry dehisant fruit.
 - E. Give morphological characters of Dhatura.
4. Answer any **Five** out of six questions : 10
 - A. Define seed.
 - B. Functions of bract and bractioles.
 - C. What is basal placentation ?
 - D. What is Gynoceium ?
 - E. Give botanical name of any two plants belonging to family Mimosae.
 - F. What is cremocarp ?

SECTION-B

5. Explain chemical and pharmacological classification of crude drugs in detail with suitable examples. 10
6. Answer any **One** out of two questions : 10
 - A. Give morphological and anatomical differentiation of Dicot and Monocot group.
 - B. What is carbohydrate ? Discuss gums in detail with atleast one suitable example of drug.
7. Write any **Four** out of five question : 20
 - A. Discuss Ayurveda, a natural system of medicine.
 - B. Give method of swelling factor.
 - C. Write a note on starch.
 - D. What are curcao and cape aloes ? Write down it's preparation methods.
 - E. Explain organised and unorganised crude drugs with suitable examples.
8. Answer any **Five** of six questions : 10
 - A. What is crude drug ?
 - B. Chemical tests of mucilage and gum.
 - C. Differentiate calcium oxalate and carbohydrate crystals.
 - D. Name the types of trichomes.
 - E. What is Aerenchyma.
 - F. Give biological source and family of Chandrashura.

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B. Pharm(Ayu.) Second Year Examination : November - 2016

Pharmaceutical Biochemistry

Date: 01-12-2016
Thursday

Time: 09:30 A.M. to 12:30 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 carbohydrates. Describe polysaccharides. 10
2. Answer any one out of two questions. 10
 - A. Explain the structural organization of proteins.
 - B. Explain electron transport chain.
3. Write a short note on any **Four** of the following : 20
 - A. What is DNA packaging ? State its significance.
 - B. Lipoproteins.
 - C. Draw a neat labelled diagram of plant cell.
 - D. Folic acid.
 - E. Obesity.
4. Answer any **Five** of the following : 10
 - A. Write full form of :
(a) NADPH (b) HMP shunt (c) t RNA (d) PPP
 - B. Explain Mutarotation.
 - C. What is osmosis ?
 - D. Lysosomes are the suicide bags of a cell. Why ?
 - E. Define lipids.
 - F. What is PEM ?

SECTION-B

5. Describe Kreb's cycle with its significance. 10
6. Answer any one out of two questions. 10
 - A. Explain membrane transport giving suitable examples.
 - B. Write a short note on Vitamin C.
7. Write a short note on any **Four** of the following : 20
 - A. Phase I reaction.
 - B. Hyperparathyroidism.
 - C. Marasmus.
 - D. Transfer RNA.
 - E. Enumerate the difference between colorimeter and spectrophotometer.
8. Answer any **Five** of the following : 10
 - A. Explain hormonal regulation of calcium in blood in brief.
 - B. What is wet and dry beri-beri ?
 - C. Name purines and pyrimidines (2 each)
 - D. Give examples of PUFA (2 each)
 - E. Write the site of these cycle in cell
 - (i) Glycolysis (ii) HMP shunt (iii) urea cycle (iv) β -oxidation.
 - F. Give examples of antioxidant enzymes in our body.

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B. Pharm(Ayu.) Second Year Examination : November - 2016

Physical Pharmacy and Pharmaceutics

Date: 02-12-2016
Friday

Time: 09:30 A.M. to 12:30 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 brief introduction of Newtonian and non-Newtonian liquids. 10
2. Answer any one out of two questions. 10
 - A. What is viscosity ? Discuss about factors affecting viscosity and methods of determine viscosity of liquids.
 - B. Narrate order of reaction and its importance in pharmacy.
3. Write a short note on any **Four** of the following : 20
 - A. Osmosis and Osmotic pressure.
 - B. Refractive index.
 - C. First law of thermodynamics.
 - D. Dielectric and dipole moment.
 - E. Thermochemistry.
4. Answer any **Five** of the following : 10
 - A. Boiling point.
 - B. Freezing point.
 - C. Sublimation.
 - D. Optical activity.
 - E. Enthalpy.
 - F. Entropy.

SECTION-B

5. Discuss various methods to determine surface tension of liquid. 10
6. Answer any one out of two questions. 10
 - A. Define emulsion. Write merit and demerit of emulsion. Discuss types along with stability problems of emulsion.
 - B. Narrate in details any three methods of preparations of lyophobic colloids.
7. Write a short note on any **Four** of the following : 20
 - A. Merit and demerit of suspension.
 - B. Flocculated and deflocculated suspension.
 - C. Particle size and powder characteristics.
 - D. Spreading co-efficient.
 - E. Factors influencing viscosity.
8. Answer any **Five** of the following : 10
 - A. Coagulation.
 - B. Cationic surfactant.
 - C. Thixotropy.
 - D. Porosity.
 - E. Solubility of colloids.
 - F. Rheology.

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B. Pharm(Ayu.) Second Year Examination : November - 2016

Pharmaceutical Microbiology

Date: 05-12-2016
Monday

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

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

SECTION-A

1. Write morphological classification of virus. Describe structure and composition of virus. 10
2. Answer any one out of two questions. 10
 - A. Describe the contribution of Louis Pasteur and John Tyndall.
 - B. Recovery of drug after completion of fermentation process and provide labelled diagram of fermenter.
3. Write a short note on any **Four** of the following : 20
 - A. Reproduction of Fungi.
 - B. PCR.
 - C. Electron microscopy.
 - D. Motility of bacteria.
 - E. Enzymes.
4. Answer any **Five** of the following : 10
 - A. What is capsid ?
 - B. What is halophilic bacteria ?
 - C. Define batch fermentation and continuous fermentation.
 - D. What is light microscopy ?
 - E. Name enriched media.
 - F. Difference between bacteria and fungi.

SECTION-B

5. Describe microbial examination of food. 10
6. Answer any one out of two questions. 10
 - A. Describe various antigen and antibody reactions.
 - B. Describe in brief B cell and T cell.
7. Write a short note on any **Four** of the following : 20
 - A. Membrane filtration.
 - B. VDRL test.
 - C. Moist heat sterilization.
 - D. Evaluation of disinfectants.
 - E. Biochemical oxygen demand.
8. Answer any **Five** of the following : 10
 - A. Define hypersensitivity.
 - B. What is innate immunity ?
 - C. Enlist four properties of antigen.
 - D. What is dilution test ?
 - E. Enlist four type of bacterial filters.
 - F. Define Atopy and Anaphylaxis.
