

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Pharmaceutical Analysis of Ayurvedic Drugs –III (Q.C., Std., GMP)

Date: 07-05-2015
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. What is the difference between Q.C. and Q.A. ? What is the need of standardisation of Ayurvedic drugs ? How will you standardise Asava preparation ? 10
2. Answer any one out of two questions. 10
 - A. Discuss the procedure to establish standards for raw drugs.
 - B. What is cGLP ? Discuss GLP as applicable to Ayurveda.
3. Answer any Four out of five questions : 20
 - A. Enumerate parameters of Avaleha and describe L.O.D. for Avaleha.
 - B. Process standardisation.
 - C. Refractive index for the Phalaghrita with details.
 - D. What is the importance of Iodine value ? How it is carried out.
 - E. Ash analysis.
4. Answer any Five out of six questions : 10
 - A. Define – Standard.
 - B. Saponification value.
 - C. Monograph.
 - D. Validation.
 - E. Specific gravity.
 - F. Sampling.

SECTION-B

5. Atomic absorption spectroscopy, it's working method, advantages and usage in analysis of metallic preparation. 10
6. Write any one out of two questions : 10
 - A. What is the importance of G.M.P in Ayurveda ? Give details of G.M.P. standards for an Ayurvedic drug industry.
 - B. Write down the instrumentation and applications of I.R. spectroscopy.
7. Answer any Four out of questions : 20
 - A. Applications of U.V. spectroscopy.
 - B. Vitamin B in detail.
 - C. How tannin is estimated from Tea leaves ?
 - D. T.M.S.
 - E. What is E.M.R. ? Give different types of electronic transition in U.V. spectroscopy.
8. Answer any Five of six questions : 10
 - A. Detection test whether milk is boiled or not.
 - B. Fiehe's test.
 - C. Lefmann beam method for fat content in milk.
 - D. Nernst glower.
 - E. Sources of vitamin 'A'.
 - F. Chopper.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Pharmaceutical Technology of Ayurvedic Drugs - II

Date: 13-05-2015
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. Discuss in detail importance of pilot plant scale up in pharmaceutical industry. 10
2. Answer any one out of two questions. 10
 - A. Classify different types of tablets. Discuss in detail the importance of excipient system in tablets.
 - B. Compiling the aspects of pre-formulation studies, write formulating of herbal anti-acne cream.
3. Write a short note on any **Four** of the following : 20
 - A. Advantages of film coating on sugar coated tablets.
 - B. Limit of disintegration time for uncoated and coated tablets as per IP 14.
 - C. Rectification method for physical and chemical incompatibilities.
 - D. Highlights of ICH guideline for stability study.
 - E. Lozenges and their packaging.
4. Answer any **Five** of the following : 10
 - A. Enlist the tablet processing problems.
 - B. What is meant by self-life of a pharmaceutical product.
 - C. Enlist the members of pilot plant scale up team.
 - D. What are surfactants ?
 - E. Which Ayurvedic formulations have no self-life as per D & C Act?
 - F. How will you draft a master manufacturing procedure ?

SECTION-B

5. Discuss the capsule dosage form in detail. How will you evaluate a market sample of a capsule ? What are ideal storage conditions ? 10
6. Answer any one out of two questions. 10
 - A. Discuss the importance of reaction of packaging material in pharmaceutical with special reference to oral liquids.
 - B. What is the need to design a sustain release dosage form and what are the advantages ? Discuss aspects for herbal sustain release tablets.
7. Write a short note on any **Four** of the following : 20
 - A. Describe the importance of storage conditions on labels with examples.
 - B. Describe flow diagram of methodology of hard gelatine capsule cell formation.
 - C. Disadvantages of glass containers.
 - D. Draw suitable diagram loading of active substance in a soft gelatine capsule.
 - E. Describe ophthalmic preparations & their scope in Ayurveda with an example.
8. Answer any **Five** of the following : 10
 - A. What is polymorphism in microencapsulation ?
 - B. What are nano-particles ?
 - C. What is pyrogen ?
 - D. Evaluation parameters for containers.
 - E. What are floating tablets ?
 - F. Evaluation parameters of parenteral as per IP 14.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Pharmaceutical Biochemistry

Date: 08-05-2015
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. Write a note on Kwashiorkor and Marasmus. 10
2. Answer any one out of two questions. 10
 - A. Explain the structural organization of proteins.
 - B. Write a note on TCA cycle.
3. Write a short note on any **Four** of the following : 20
 - A. Write the structural and functional details of cell membrane.
 - B. Write short note on Obesity.
 - C. Differentiate between innate and adaptive immunity.
 - D. Write short note on Cori's cycle.
 - E. Enlist the various role played by proteins in our body.
4. Answer any **Five** of the following : 10
 - A. What are centrioles ?
 - B. Mention the important differences between type I and type II diabetes.
 - C. What is the correlation between pH and the charge on an amino acid ?
 - D. Write the functions of vitamin B1 and B2 inside the body.
 - E. Define PEM.
 - F. Write the role played by different cells of WBCs.

SECTION-B

5. Define and classify lipids. 10
6. Answer any one out of two questions. 10
 - A. Write a note on thyroid function test.
 - B. Define enzyme . Write the structural detail and classification of enzymes.
7. Write a short note on any **Four** of the following : 20
 - A. Write a note on microglial cells.
 - B. Write a note on gout.
 - C. Define and describe RNA.
 - D. Write a note on calcium and phosphorous as a mineral on the body.
 - E. Enlist the roles of lipids.
8. Answer any **Five** of the following : 10
 - A. What is the importance of topoisomerase in DNA replication ?
 - B. What is action potential ?
 - C. What is free and combined acidity ?
 - D. Write the importance of sodium as a mineral in our body.
 - E. Write the structure and function of TAG.
 - F. What is competitive inhibition of an enzyme ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Pharmaceutical Microbiology

Date: 11-05-2015
Monday

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

Instructions Every question is compulsory.

SECTION - A

1. Discuss media used for cultivation of bacteria. 10
2. Discuss bacterial drug resistance. 10

OR

- System of identification of bacteria.
3. Write short note on any four of the following - 20
 - A. Robert Koch.
 - B. Bacterial flagella.
 - C. Candidiasis.
 - D. Autotrophic bacteria.
 - E. Properties of viruses.
 4. Answer any five of the following - 10
 - A. What are Cryophilics ?
 - B. What is basic difference between aerobic and anaerobic bacteria ?
 - C. What is mordant ?
 - D. Name Gram +ve and Gram -ve bacille.
 - E. Name media used for cultivation of fungi.
 - F. Name acid fast bacille.

SECTION - B

5. What are the methods used for sterility testings of different Pharmaceutical products. 10
6. Discuss food born intoxication. 10

OR

- Discuss laboratory diagnosis of Syphilis.
7. Write short note on any four of the following - 20
 - A. Chemical disinfectants.
 - B. Autoclave.
 - C. Widal test.
 - D. Bacterial enzymes.
 - E. Classification of hypersensitivity.
 8. Answer any five of the following - 10
 - A. Define Autoimmunity.
 - B. Define Antigen.
 - C. What is full form of R.I.A. and what is its principle ?
 - D. Name tests based on precipitation reaction.
 - E. What is B.O.D. ?
 - F. Define sterilization and disinfection.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Ayurvediya Aushadha Nirmana Shastra - IV

Date: 12-05-2015
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. Define Varti and explain different types of Varti in detail. 10
2. Answer any one out of two questions. 10
 - A. Give definition of Nasya and describe different types of Nasal preparations.
 - B. Write general preparatory method of ophthalmological preparations and describe its different types.
3. Write a short note on any **Four** of the following : 20
 - A. Takrarishtha.
 - B. Malahara Kalpana.
 - C. Shat Dhauta Ghrita.
 - D. Kshara Sutra.
 - E. Gandusha.
4. Answer any **Five** of the following : 10
 - A. Enlist types of Lepa.
 - B. Mention dose and stability period of Shat Dhauta Ghrita.
 - C. Write indications of Kshara Sutra.
 - D. Uses of Phala Varti.
 - E. Uses of Kavala Graha.
 - F. Importance of Ayaskriti.

SECTION-B

5. What are the Upadhatus ? Explain any one Upadhatu in detail. 10
6. Answer any one out of two questions. 10
 - A. Define Parada-Bhasma, write its types and preparatory method.
 - B. Explain Rasa Bandha and mention its utility in detail.
7. Write a short note on any **Four** of the following : 20
 - A. Amritikarana process.
 - B. Jarana process.
 - C. Ratna Dosha.
 - D. Godanti.
 - E. Bhanupaka.
8. Answer any **Five** of the following : 10
 - A. Name Ashta Mahadoshas of Tamra.
 - B. Write four medicinal formulations of Naga.
 - C. Write uses of Kukkutanda Twaka Bhasma.
 - D. Antidotal use of Tankana.
 - E. Therapeutic dose and stability period of Parada Bhasma.
 - F. Colour of Swarna, Rajata, Tamra and Loha Bhasma.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Pharmacology & Toxicology of Ayurvedic Drugs -II

Date: 15-05-2015
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. Discuss in detail about pathophysiology of angina pectoris. Classify drugs used for its treatment. 10
2. Answer any **one** out of two questions. 10
 - A. Enumerate respiratory disorders. Classify drugs and explain mechanism of action of drugs used for treatment of asthma.
 - B. Write a note on anti arrhythmic agent.
3. Write a short note on any **Four** of the following : 20
 - A. Anti hypertensive agent.
 - B. Congestive cardiac failure and drugs used for its treatment.
 - C. Central cough suppressants.
 - D. Functions of blood.
 - E. Diuretics.
4. Answer any **Five** of the following : 10
 - A. Drugs affecting renal functions.
 - B. Drugs used for treatment of anaemia.
 - C. Nitrites.
 - D. Anti platelet agents.
 - E. Ayurvedic drugs used in cough and cold.
 - F. Ayurvedic drugs used in heart disease.

SECTION-B

5. Define antibiotics. Classify important class of antibiotics. 10
6. Answer any **one** out of two questions. 10
 - A. Anti viral drugs.
 - B. Anti fungal agents.
7. Write a short note on any **Four** of the following : 20
 - A. Thyroid disorders and drugs used in its treatment.
 - B. Diabetes mellitus and drugs used in its treatment.
 - C. Anti cancer drugs.
 - D. Anti malarial agents.
 - E. Non steroidal anti inflammatory drugs.
8. Answer any **Five** of the following : 10
 - A. Selective COX - II inhibitors.
 - B. Ayurvedic drugs used in cancer.
 - C. Immuno suppressants.
 - D. Anti diarrhoeal agent.
 - E. Ayurvedic drugs having anti inflammatory activity.
 - F. Ayurvedic drugs used in skin disorders.

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

B. Pharm(Ayu.) Final Year Examination : May - 2015

Forensic Pharmacy, Act, Rules and Regulation Pharmacy Management

Date: 09-05-2015
Saturday

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. Discuss in detail requirement for import, possession and sale poison under Poison Act. 1919 & rule there under. 10
2. Answer any one out of two questions. 10
 - A. Discuss objective of Pharmacy Act.. What are the functions of State Pharmacy Council ?
 - B. Write in detail about code of Pharmaceutical ethics.
3. Answer any Four out of five questions : 20
 - A. Magic Remedies.
 - B. Misbranded drugs.
 - C. Manufacturing of drugs.
 - D. Preparation of dossier.
 - E. Pharmaceutical Legislation.
4. Answer any Five out of six questions : 10
 - A. Patent and proprietary Medicine.
 - B. Qualification and duties of Drug Inspector.
 - C. BMR Record.
 - D. Licensing Authority.
 - E. Ayurvedic Drugs.
 - F. Pharmacovigilance.

SECTION-B

5. Discuss the factors affecting purchasing. 10
6. Write any one out of two questions : 10
 - A. Discuss the factors affecting location of Industry along with Layout of Building.
 - B. State the various Medias of advertisement in detail.
7. Answer any Four out of questions : 20
 - A. Selection procedure of an employee.
 - B. Quality control.
 - C. Inventory Control.
 - D. Source of Recruitment.
 - E. Job evaluation.
8. Answer any Five of six questions : 10
 - A. Apprentice Training.
 - B. Purchasing in scientific way.
 - C. Promotion Policies.
 - D. Air Pollution Act.
 - E. Detailing.
 - F. Sampling.
