

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

**Pharmacology & Toxicology of Ayurvedic Drugs -II**

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. Discuss in detail about pathophysiology of hypertension. Classify the drugs used for its treatment. 10
2. Answer any one out of two questions. 10
  - A. Write a note on asthma.
  - B. Write a note on functions of blood.
3. Write a short note on any **Four** of the following : 20
  - A. Treatment of congestive cardiac failure.
  - B. Anti arrhythmic drugs.
  - C. Role of diuretics in hypertension.
  - D. Cough suppressants.
  - E. Anti inflammatory drugs.
4. Answer any **Five** out of six questions : 10
  - A. Haematinic agents.
  - B. Vasodilators.
  - C. Ayurvedic drugs used in cough and cold.
  - D. Anti platelet agents.
  - E. Ayurvedic drugs used in cardiovascular disorders.
  - F. Drugs affecting renal functions.

**SECTION-B**

5. Distinguish antibiotics and chemotherapeutic agents. Enlist important antibiotics with its medicinal use. 10
6. Write any **one** out of two questions : 10
  - A. Drugs used in skin infections.
  - B. Write a note on anti malarial agents.
7. Write a short note on any **Four** of the following : 20
  - A. Mechanism of action of sulfonylureas.
  - B. Anti cancer drugs.
  - C. Principles of chemotherapy infections.
  - D. Immunomodulators.
  - E. Viral infections and drugs used for its treatment.
8. Answer any **Five** of six questions : 10
  - A. Enlist specific cyclooxygenase – II inhibitors.
  - B. Ayurvedic drugs used in inflammation and rheumatism.
  - C. Ayurvedic drugs used in cancer.
  - D. Ayurvedic drugs used in endocrinological disorders.
  - E. Ayurvedic drugs used in malaria.
  - F. Enlist beta lactam antibiotic.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

**Pharmaceutical Biochemistry**

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. Explain TCA cycle. 10
2. Answer any one out of two questions. 10
  - A. Explain the significance of free Radicals.
  - B. Differentiate between Eukaryotic and Prokaryotic cell.
3. Write a short note on any **Four** of the following : 20
  - A. Write a short note on competitive inhibition.
  - B. Define lipids. State their biochemical functions.
  - C. Explain passive membrane transport.
  - D. Describe oxidative Phosphorylation.
  - E. Enlist medical uses of carbohydrates.
4. Answer any **Five** out of six questions : 10
  - A. Define Km value.
  - B. Write the importance of glycogenolysis process.
  - C. What is amylose and amylopectin ?
  - D. Which are the inhibitory neuro transmitters ?
  - E. What do you mean by D and L glucose ?
  - F. Dextrin and dextran are different. Explain.

**SECTION-B**

5. Describe transcription process. 10
6. Write any **one** out of two questions : 10
  - A. Describe liver function test.
  - B. Write a note on Malnutrition.
7. Write a short note on any **Four** of the following : 20
  - A. What is action potential ?
  - B. Write a short note on vitamins as coenzymes.
  - C. Write a note on antigen presenting cells.
  - D. Explain the role of major histocompatibility complex.
  - E. State the functional difference between Insulin and Glucagon.
8. Answer any **Five** of six questions : 10
  - A. What are histone proteins ?
  - B. Viruses and RBCs are not true cells. Explain
  - C. Lysosomes are the suicide bags of a cell. Explain.
  - D. Diabetes is known as slow poison. Explain.
  - E. How is a peptide bond formed ?
  - F. State the uses of Phospholipids.

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GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

**Pharmaceutical Technology of Ayurvedic Drugs - II**

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. Enumerate general consideration for pilot plan up and discuss any one in detail. 10
2. Answer any one out of two questions. 10
  - A. Formulations of tablets.
  - B. Details of ICH-guidelines for stability study of pharmaceutical product.
3. Write a short note on any **Four** of the following : 20
  - A. Evaluation methods for tablets.
  - B. Additives used in tablet in brief.
  - C. Difference between film coating and sugar coating.
  - D. Incompatibilities of alkaloids and glycosides.
  - E. Lozenges and their packaging.
4. Answer any **Five** of the following : 10
  - A. Enumerate tablet manufacturing defects.
  - B. What is capping in case of tablet ?
  - C. Example of physical incompatibilities.
  - D. Two diluents used for tablets.
  - E. Define pastilles.
  - F. Name two surface active agents.

**SECTION-B**

5. What are the advantages and disadvantages of microencapsulation. 10
6. Answer any one out of two questions. 10
  - A. Discuss the capsule dosage form in detail. Describe different size and capacity of capsules.
  - B. Enumerate various techniques for micro encapsulation and explain about any two in detail.
7. Write a short note on any **Four** of the following : 20
  - A. Osmotic drug delivery system.
  - B. Packaging material for liquid dosage form.
  - C. Evaluation method for capsules.
  - D. Floating tablet.
  - E. Advantages and limitations of parenteral.
8. Answer any **Five** of the following : 10
  - A. What is pyrogen ?
  - B. Give the name of two vehicles used for parenteral dosage form.
  - C. How borosilicate glass differs from other glass container.
  - D. Name the additives used in capsule filling.
  - E. Limitations of plastic containers.
  - F. What do you mean by 't<sub>1/2</sub>' with reference to sustained release dosage form ?

GUJARAT AYURVED UNIVERSITY, JAMNAGAR

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

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

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. What is pharmacopeia ? Enumerate all the parameters included in pharmacopeia and explain any two in detail. 10
2. Answer any one out of two questions. 10
  - A. What is standardization ? How will you establish standards for vegetable raw drugs ?
  - B. What different parameters will you determine while analysing Triphala Churna? How will you determine acid insoluble ash ?
3. Write a short note on any **Four** of the following : 20
  - A. Classical parameters for Avaleha.
  - B. Classical parameters for quality of Bhasma preparation.
  - C. Process standardisation for Taila preparation.
  - D. G.L.P. in brief.
  - E. Discuss validation aspects for analytical parameters.
4. Answer any **Five** of the following : 10
  - A. Define Acid value.
  - B. Monograph.
  - C. Quality assurance.
  - D. Standard.
  - E. RMPK values.
  - F. Critical angle.

**SECTION-B**

5. What is G.M.P.? when G.M.P. introduce to AYUSH drugs? Discuss G.M.P. in brief. 10
6. Answer any one out of two questions. 10
  - A. Give analytical profile of milk in brief.
  - B. Discuss total area required for G.M.P. and give details of area requirements for different types of formulations.
7. Write a short note on any **Four** of the following : 20
  - A. Vibrations in I.R. spectroscopy.
  - B. Vitamin C in detail.
  - C. What is T.M.S. ? Why it is used as reference standard ? Explain.
  - D. Applications of A.A.S.
  - E. Determination of reducing sugar in honey.
8. Answer any **Five** of the following : 10
  - A. Condition to get I.R. spectra.
  - B. Enumerate different light source for U.V. visible spectroscopy.
  - C. Gerber method for fat content.
  - D. Resorcinol test for honey.
  - E. Name of procedure for tannin estimation.
  - F. H.C.L.