(PHD 30110)

Pharm. D DEGREE EXAMINATION, JULY 2016.

(Regular/Supplementary)

(Examination at the end of Third Year of 6 years Courses)

Paper I — PHARMACOLOGY – II

(Regulation 2010-2011)

Time : Three hours Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Discuss about the classification, mechanism of action and therapeutic uses of anticoagulants.

2. Explain about the mechanism of action, adverse effects and therapeutic uses of cephalosporins.

3. Discuss about WHO recommended chemotherapy of tuberculosis. Add a note on drug resistant tuberculosis.

4. Discuss about alkylating agents and anticancer antibiotics.

5. Describe about various phases of cell cycle? Add a note on cell cycle regulators.

6. Discuss about preclinical toxicity evaluation of drugs.

7. Explain about the principle and applications of recombinant DNA technology.

8. Write about the following :

(a) Loop diuretics

(b) Therapeutic uses and adverse effects of immuno suppressants.

(PHD 30210)

IV Pharm.D. DEGREE EXAMINATION, JUNE 2016.

(Regular/Supplementary)

(Examination at the end of Third Year of 6 Years Course)

Paper II — PHARMACEUTICAL ANALYSIS

(Regulation 2010 – 2011)

Time : Three hours Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. What do you know of
   (a) Statistical quality control.
   (b) GLP, ISO 9000.

2. What is Ion exchange chromatography? Add a note on different Ion exchange resins. Discuss the applications of this technique in pharmaceutical analysis.

3. Write short notes on :
   (a) HPTLC
   (b) GEL filtration.

4. Write the principle, instrumentation and applications of potentiometry in pharmaceutical analysis.

5. Write briefly on :
   (a) Conduct metric titrations
   (b) Residual current and diffusion current
   (c) Referance and indicator electrodes.

6. Write the theory, instrumentation and applications of UV-visible spectroscopy in pharmacy.

7. Give an account of :
   (a) Fluorimetry
   (b) DSC and DTA.

8. Write the principle, instrumentation and applications of Mass spectroscopy in analysis.

(PHD 30310)

IV Pharm.D DEGREE EXAMINATION,
JUNE 2016.

(Regular/Supplementary)

(Examination at the end of Third Year of 6 Years Course)

Paper III — PHARMACOTHERAPEUTICS — II

(Regulation 2010-11)

Time : Three hours Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Explain the clinical features and treatment of Psoriasis.

2. Explain the classification and causes of Acute Renal Failure. Add a note on loop diuretics.

3. Describe the guidelines for the rational use of surgical antibiotic prophylaxis.

4. Explain the pathophysiology and pharmacotherapy of SLE.

5. Write about the following :

   (a) Gonorrhea

   (b) Osteoarthritis.

6. Discuss about the following :

   (a) Scabies

   (b) Endocarditis.

7. Explain the clinical features, diagnosis and treatment of Pneumonia.

8. Write about the following :

   (a) Chemotherapy of breast cancer

   (b) Septicemia.

(PHD 30410)

IV Pharm. D DEGREE EXAMINATION, JUNE 2016.

(Regular/Supplementary)

(Examination at the end of Third Year of 6 Years Course)

Paper IV — PHARMACEUTICAL JURISPRUDENCE

(Regulation 2010-2011)

Time : Three hours Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Define the following as per Drugs and Cosmetics Act. (8)

(i) Drugs Allopathic

(ii) Misbranded drugs

(iii) Pharmacy

(iv) Coca

(b) Mention the labelling requirements of Schedule X and C drugs with suitable examples. (6)

2. (a) Explain the construction and working of a bonded laboratory. (7)

(b) What are the objectives of Drugs and Magic Remedies Act? Which types of advertisements are prohibited under this act? (7)

3. (a) What are the qualifications and duties of the Government Analyst and procedures to be followed for analysis of drugs? (7)

(b) Give the constitution and functions of Drug Technical Advisory Board (7)

4. Bring out the salient features of the Narcotic Drugs and Psychotropic Substances Act. Mention the offences and penalties under the Act. (14)

5. (a) Explain the procedure for obtaining the license for the manufacture of drugs. What are conditions for grant of license and conditions of license? (9)

(b) Write the requirements for opening a pharmacy. (5)

6. (a) What are the salient features of Indian Patents and Design Act 1970 with reference to Drugs and Cosmetics? (7)

(b) What are the objectives of Drugs Price Control Order? Explain the procedure for fixing the rate of bulk drugs and formulations. (7)

7. Write about the following:

(a) Pharmacist ethics with respect to trade and profession. (7)

(b) Prevention of cruelty to animals. (7)

8. (a) Write the constitution, objectives and functions of Pharmacy Council of India. (10)

(b) Write about the preparation of First Register of Pharmacist under Pharmacy Act. (4)

(PHD 30510)

IV Pharm. D DEGREE EXAMINATION, JUNE 2016.

(Regular/Supplementary)

(Examination at the end of Third Year of 6 Year Course)

Paper V — MEDICINAL CHEMISTRY

(Regulation 2010 – 2011)

Time : Three hours Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. What is Hansch analysis? How is it useful in drug design?

2. Discuss with examples the importance of CADD in Medicinal Chemistry.

3. Write briefly on :

   (a) Antifungal agents

   (b) Anti AIDS agents.

4. Outline the synthesis and uses of :

   (a) Isoniazid

   (b) Sulphamethoxazole

   (c) Primaquine

   (d) Tolbutamide.

5. What is essential and primary hypertention? Classify different hypertensive agents and write the SAR of ACE inhibitors. Outline the synthesis of Methyl Dopa and Clonidine.

6. What do you know of

   (a) Anti hyper lipidemic agents

   (b) Diagnostic agents.

7. Give an account of steroidal hormones in the management of diseases.

8. Write the synthesis and uses of

   (a) Acetazolamide

   (b) Hydrochlorthiazide

   (c) Cyclophosphamide

   (d) 5-fluorouracil.

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(PHD 30610)

IV Pharm. D DEGREE EXAMINATION, JUNE 2016

(Regular/Supplementary)

(Examination at the end of Third year of 6 Years Course)

Paper – VI : PHARMACEUTICAL FORMULATIONS

(Regulation 2010-2011)

Time : Three hours Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Explain the steps involved in the manufacture of tablets by wet granulation. (7)

   (b) Enumerate the defects of tablets during the manufacture and suggest suitable remedies. (7)

2. (a) Enumerate the additives used in the parenteral products. (9)

   (b) Write a note on the containers and closures for parenteral products (5)

3. (a) Give the classification of ointment bases and their relative merits (8)

(b) Define displacement value and mention its significance in the preparation of suppositories (6)

4. (a) Give the classification of dosage forms based on the type of dosage form and discuss their relative merits. (10)

(b) Write about the advantages of buccal drug delivery systems. (4)

5. (a) Write about the advantages, method of formulation of emulsions. (7)

(b) Write about the evaluation methods of suspensions. (7)

6. (a) Why Capsules are formulated? Write about the raw materials used in the preparation of capsules Add a note of different sizes of capsules. (8)

(b) Name the methods for the preparation of soft gelatin capsules and explain rotary die process. (6)

7. Write about the following novel drug delivery systems (2 × 7)

(a) Implants

(b) Occular drug delivery systems

8. Write short notes on the following :

(a) Weight variation test for tablets as per I.P.(5)

(b) Pyrogen testing. (5)

(c) Defects of sugar coating. (4)