

(PHD30110)

III Pharm D. DEGREE EXAMINATION,
JULY/AUGUST 2017.

(Regular)

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

Paper I — PHARMACOLOGY — II

(Regulation 2010-11)

Time : Three hours

Maximum : 70 marks

Answer any FIVE of the following.

All questions carry equal marks.

1. (a) Describe the pharmacology of antiplatelet agents.
(b) Write a note therapeutic uses of plasma expanders.
2. Classify diuretics with examples, describe the pharmacology of thiazide diuretics.
3. Describe the pharmacology of β lactum antibiotics.

4. Describe the first line therapy of tuberculosis. Add a note on multi drug resistance.

5. Classify anticancer drugs. Describe the pharmacology of antimetabolites.

6. Write a note on the pharmacology of Immunosuppressants.

7. Explain the cell signaling pathways of ion channels and JNK pathways.

8. Write a note on:

- (a) Gene therapy
- (b) Mutations.

(PHD30210)

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Paper II -- PHARMACEUTICAL ANALYSIS

(Regulation 2010-2011)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. What is validation? Write about its significance in pharma industry. Discuss validations of analytical instruments.
2. Write in detail on :
 - (a) TLC
 - (b) Paper chromatography.
3. With a neat sketch explain instrumentation involved in gas chromatography. Add a note on industrial applications of GC.

4. Write in brief on :
 - (a) Columns used in HPLC.
 - (b) Applications of electrophoresis.
5. Write in detail on principle, instrumentation and pharmaceutical applications of flame photometry.
6. Write short notes on :
 - (a) Beer-Lambert's law
 - (b) Chromophores
 - (c) PDA detector.
7. Write the theory and instrumentation involved in DTA.
8. Write in brief on :
 - (a) Mass fragmentation
 - (b) Fingerprint region in IR spectrum.

(PHD30310)

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Paper III — PHARMACOTHERAPEUTICS – II

(Regulation 2010-11)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Write a note on etiology, pathophysiology and Pharmacotherapeutics of Tuberculosis.
2. (a) Describe the pharmacotherapy of urinary tract infections
(b) Describe the pharmacotherapy of Gastroenteritis
3. Explain the pathophysiology and pharmacotherapy of Rheumatoid arthritis
4. Explain the etiology, pathophysiology and chronic renal failure.

5. Write a note on the chemotherapy of leukemia's
6. Describe the pathophysiology and pharmacotherapy breast cancer
7. Describe the pathophysiology and pharmacotherapy Psoriasis
8. Write a note on :
 - (a) Pharmacotherapy of Gonorrhoea.
 - (b) Renal dialysis.

(PHD30410)

III Pharm.D. DEGREE EXAMINATION,
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(Regular)

www.kvrssgroup.com (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. Write about the following :

- (a) Drug price control order. (7)
- (b) Drugs and Magic Remedies Act. (7)

2. (a) What different bodies are constituted under Drugs and Cosmetics Act for its administration? Give the constitution and functions of Drug Technical Advisory Board. (8)

- (b) Write the qualifications of government analyst. Write the procedure to be followed for analysis of drugs. (6)

3. (a) Write the constitution and functions of State Pharmacy Council. (7)
- (b) Write about the objectives and duties of Pharmacy Council of India. (7)
4. (a) What are the salient differences between manufacturing inside and outside bond? Write about the procedure for obtaining spirit form distillery. (8)
- (b) Explain the procedure for obtaining patent according to Indian Patent Act. (6)
5. (a) What classes of drugs are prohibited for import? Explain the procedure for import of drugs meant for different purposes. (9)
- (b) What are the objectives of Drugs and Cosmetics Act 1940? What are the subsequent modifications that are made to the Act? (5)
6. (a) What is the significance of 'Code of Ethics'? Write about the Code of Ethics of Pharmacists in relation to his job. (7)
- (b) Write about the Prevention of Cruelty to Animals Act 1960. (7)
7. (a) Discuss the operations that are permitted and prohibited under the Narcotics and Psychotropic Substances Act and Rules. (7)
- (b) Explain the cultivation, production and sale of opium. (7)
8. (a) What different types of licenses are issued for the sale of drugs? Bring out the salient differences between them and the necessary conditions for grant of these licenses. (10)
- (b) Write about Schedule N of Drugs and Cosmetics Act. (4)

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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 rational drug design? Enlist various approaches used for rational drug design. Write in detail on structure based drug design.
2. Write short notes on :
(a) Preservatives
(b) Antiprotozoal agents.
3. With a neat sketch describe viral life cycle and identify drug targets. Write in detail on NNRT inhibitors.

4. Classify anticancer agents with examples. Write in detail on alkylating agents. Outline the synthesis and clinical uses of busulfan.

5. Write short notes on : (7 + 7 = 14)

- (a) Biguanide hypoglycemic agents
- (b) Anticoagulants.

6. Write the structure, IUPAC name, MOA and clinical applications of (5 + 5 + 4 = 14)

- (a) Clotrimazole
- (b) Tolbutamide
- (c) Mechlorithamine.

7. Write in brief on :

- (a) Potassium sparing diuretics
- (b) Steroidal anti-inflammatory agents.

8. What are diagnostic agents? Classify them. Write ideal characteristics of a diagnostic agent. Write in detail on radio-contrast agents.

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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 different granulation techniques for the manufacture of tablets mentioning their advantages. (7)
(b) Explain the process of sugar coating. (7)
2. (a) With the help of a neat diagram explain the layout of small volume parenteral unit. (7)
(b) Name the official quality control tests for parenteral products and explain the test for sterility in detail. (7)
3. (a) What are suppositories and write about the bases for their preparation. (7)
(b) Briefly describe the methods of sterilization for ophthalmic ointments. (7)
4. (a) Enumerate the excipients used in the preparation of suspensions. (9)
(b) Give the classification of emulsifying agents with suitable examples and discuss their merits. (5)
5. Give the classification of dosage forms based on the route of administration and explain their relative advantages with suitable examples. (14)
6. (a) Write about the advantages of hard gelatin capsules. Mention the types of gelatin used in the preparation of hard gelatin capsules. (8)
(b) Explain any one method for the preparation of soft gelatin capsules. (6)
7. (a) Write the advantages and disadvantages of controlled drug delivery systems. (6)
(b) Give the classification of transdermal drug delivery systems and write about the excipients used in their preparation. (8)
8. Write short notes on the following:
(a) Disintegration test for tablets as per I.P. (5)
(b) Preservatives for ophthalmic preparations. (4)
(c) Evaluation of emulsions. (5)