

**(PHD 40110)**

IV Pharm. D. DEGREE EXAMINATION, JUNE 2016.

(Regular/Supplementary)

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

Paper I — PHARMACOTHERAPEUTICS – III

(Regulation 2010-2011)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

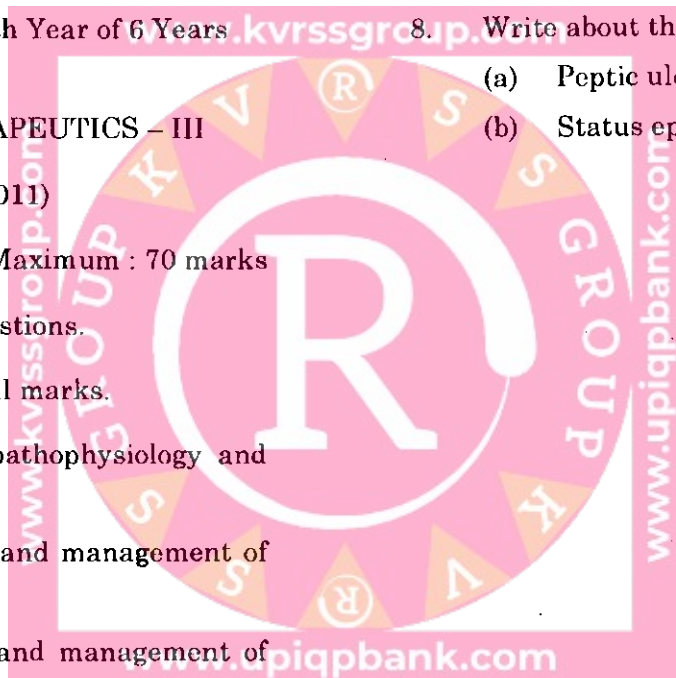
All questions carry equal marks.

1. Discuss about the etiology, pathophysiology and management of GERD.
2. Explain about the symptoms and management of Parkinsonism.
3. Discuss about the diagnosis and management of schizophrenia.
4. Write about the etiology, patho-physiology and management of musculo skeletal pain.
5. Classify anemias. Discuss about their etiology and management.

6. Explain about the importance of evidence based medicine.
7. Discuss about patho physiology and complications of deep vein thrombosis.

8. Write about the following :

- (a) Peptic ulcer
- (b) Status epilepticus.



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**Paper II — HOSPITAL PHARMACY**

(Regulation 2010-11)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. (a) Explain the organisational structure of a hospital pharmacy unit.  
(b) What are the responsibilities of a hospital pharmacist?
2. (a) Explain the constitution and functions of pharmacy and therapeutics committee.  
(b) Write a note on development of therapeutic guidelines for antibiotics.
3. (a) Explain ABC and VED methods of inventory control.  
(b) Explain about the distribution of Narcotic and other controlled substances.
4. Explain how large and small volume parenterals, ointments and creams are manufactured in a hospital pharmacy unit.
5. (a) What is the role of a pharmacist in the continuing education programmes in a hospital?  
(b) Explain how radio-pharmaceuticals are handled in a hospital pharmacy unit.
6. Explain how a pharmacist must maintain positive relationship with doctors, nurses, administrative staff and patients.
7. Write notes on :  
(a) Floor stock system  
(b) Individual prescription order system  
(c) Economic order quantity.
8. Explain the role of the pharmacist in a central sterile supply services room and in total parenteral nutrition.

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Paper III — CLINICAL PHARMACY

(Regulation 2010-2011)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

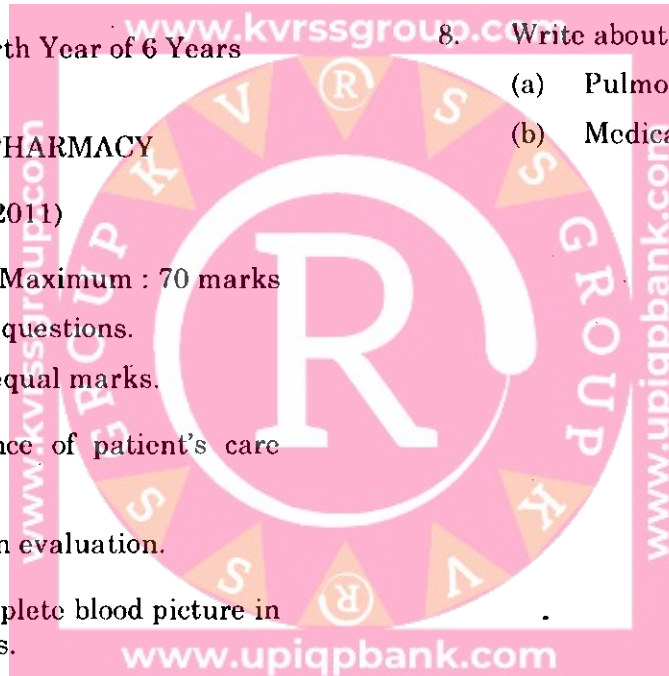
All questions carry equal marks.

1. Discuss about the importance of patient's care history.
2. Explain about drug utilization evaluation.
3. Discuss about the role of complete blood picture in the diagnosis of disease states.
4. Discuss about the establishment of drug information centre. Add a note on its objectives.
5. Classify adverse drug reactions. Explain about the risk factors and mechanisms involved.

6. Explain about the steps involved in patient counselling. Add a note on its importance.
7. What is pharmaceutical care? What are its objectives?

8. Write about the following :

- (a) Pulmonary function tests
- (b) Medication errors.



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**Paper IV — BIostatistics and Research  
Methodology**

**(Regulation 2010-2011)**

**Time : Three hours**

**Maximum : 70 marks**

**Answer any FIVE questions.**

**All questions carry equal marks.**

1. (a) Explain about observational studies, interventional studies and prospective studies.  
(b) Write a note on report writing and presentation of data.
2. Explain about range, standard deviation, variance, coefficient of variation and standard error of mean.

3. Find the mean, median, mode and coefficient of variation for the following data.

Range of fastins Blood glucose	90-110	110-130	130-150	150-170
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No. of patients	10	25	50	20
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Range of fastins Blood glucose	170-190	190-210	210-230
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No. of patients	15	8	2
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4. Explain the theoretical background, formulate and applications of *t* test and chi-square test.

5. (a) Explain the procedure for carryins out one way analysis of variance.

(b) Following table gives the time taken in days by patients for recoveries, after they underwent three different types of surgery for the same problem. Find out whether there is significant difference between the time taken by the three groups of patients. The critical value of F for  $r_1 = 2$  and  $r_2 = 12$  at 5% level of significance is 3.38.

Type of surgery

A	B	C
20	18	25
21	20	28
23	17	22
16	15	28
20	25	32

2

(PHD 40410)

6. (a) Explain about SPSS and its applications.

(b) Write a note on Person's correlation coefficient.

7. Write notes on incidence, prevalence, relative risk and attributable risk.

8. Explain about the use of computers in Hospital Pharmacy.

3

(PHD 40410)

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**Paper V — BIOPHARMACEUTICS AND PHARMACOKINETICS**

(Regulation 2010-2011)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Enumerate the physico-chemical factors influencing the absorption of drugs.
2. Write about the following:
  - (a) Therapeutic range
  - (b) Onset and duration of action
  - (c) Renal clearance
  - (d) Apparent volume of distribution.
3. Name the methods for determination of absorption rate constant and explain method of residuals in detail. Mention its relative advantages.

4. Explain the calculation of pharmacokinetic parameters in two compartment model with intravenous bolus administration.
5. Explain the drug accumulation pattern in repetitive intravenous injections. How steady state is achieved in this condition?
6. What are non-linear pharmacokinetics? How non-linearity is detected? Write about the Lineweaver-Burk plot.
7. Discuss the significance of the following:
  - (a) Mean residence time
  - (b) Area under first moment curve
  - (c) Mean absorption time
  - (d) Mean dissolution time.
8. Write about the factors influencing the bioavailability. Enumerate the methods for improving oral bioavailability of poorly soluble drugs.

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Paper VI — CLINICAL TOXICOLOGY

(Regulation 2010-2011)

Time : Three hours

Maximum : 70 marks

Answer any FIVE questions.

All questions carry equal marks.

1. Discuss about cardiopulmonary resuscitation in the management of Poisoning.
2. Explain about the clinical symptoms and management of barbiturate poisoning.
3. Discuss about the OECD guidelines for the evaluation of toxicokinetics.
4. Describe the symptoms and management of aspirin overdoses.
5. Write about the symptoms and management of iron toxicity.

6. Discuss about the diagnosis and treatment of opioid abuse.
7. Discuss about mushroom poisoning.
8. Write about the following :
  - (a) Snake bite management
  - (b) Diagnosis of food poisoning.

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**Paper VII — PHARMACOTHERAPEUTICS (I AND II)**

**(Regulation 2010 – 11)**

**(For Lateral Entry Students only)**

**Time : Three hours**

**Maximum : 70 marks**

**Answer any FIVE questions.**

**(5 × 14 = 70)**

1. Explain the etiopathogenesis and pharmacotherapy of
  - (a) Myocardial Infarction
  - (b) Glaucoma.
2. Write in detail about Oral contraceptives. Add a note on hormone replacement therapy.
3. Write about general prescribing guidelines for Pediatric and Geriatric patients.
4. Define Rational drug use. Add a note on role of pharmacist in essential drug concept and rational drug formulations.

5. Write about the clinical presentation, diagnosis and therapeutic management of

- (a) Rheumatoid arthritis
- (b) Spondylitis.

6. Discuss the therapeutic approach for the management of

- (a) Psoriasis
- (b) Leukemia.

7. Explain in detail about Renal dialysis. Add a note on drug induced renal disorders.

8. Write about the causative agents, mode of transmission, symptoms and treatment for

- (a) Gonorrhoea
- (b) Syphilis.