

[KV 821]

SEPTEMBER 2009

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 onwards)**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

***Q.P. Code: 383821***

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define drug utilization evaluation (DUE).  
Describe the DUE cycle and mention the role of a clinical pharmacist in DUE.
2. Write in detail about communication skills.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Pharmacist intervention in drug therapy monitoring.
2. Critical literature evaluation.
3. Factors contribution to and prevention of medication errors.
4. Pulmonary functions tests.
5. Causality assessment in adverse drug reaction.
6. Liver function tests.

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[KX 821]

SEPTEMBER 2010

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 / 2009-2010 onwards)**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

***Q.P. Code: 383821***

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail on definition, development and scope of clinical pharmacy.
2. Define ADR (Adverse Drug Reaction). Discuss in detail on its management along with its causality assessment scales.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Clinical Review.
2. Drug Information Resource.
3. Electrolytes and its importance.
4. Types of Medication Errors.
5. Pulmonary Function Test.
6. Quality Assurance of Clinical Pharmacy Services.

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[KY 821]

MAY 2011

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(Regulations 2008-2009 )**

**(Candidates admitted from 2008-2009 / 2009-2010 onwards)**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write in detail about DUE.
2. Describe patient counseling with examples.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Medication Chart Review.
2. Tests associated with cardiac disorders.
3. Preparation of written and verbal reports.
4. Role of pharmacist in management of ADR.
5. Medication History Interview.
6. Critical evaluation of biomedical literature.

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**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)****DEGREE EXAMINATION****FOURTH YEAR****PAPER III – CLINICAL PHARMACY***Q.P. Code: 383821***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :****Pages Time Marks  
(Max.) (Max.) (Max.)**

- |   |    |         |    |
|---|----|---------|----|
| 1. Functions and processing steps of drug utilization evaluation. | 17 | 40 min. | 20 |
| 2. Types and mechanisms of adverse drug reactions.                | 17 | 40 min. | 20 |

**II. Write notes on :**

- |  |   |         |   |
|--|---|---------|---|
| 1. Systemic approach in answering queries received in drug information center.   | 4 | 10 min. | 6 |
| 2. Elements of verbal and non verbal skills required for patient counseling.     | 4 | 10 min. | 6 |
| 3. Steps involved in Pharmaceutical care.  | 4 | 10 min. | 6 |
| 4. Structure of patient case history.  | 4 | 10 min. | 6 |
| 5. Responsibilities of clinical pharmacist in hospital patient care areas.       | 4 | 10 min. | 6 |
| 6. Liver function tests associated with cholestatic liver disease.               | 4 | 10 min. | 6 |
| 7. Clinical importance of blood urea, serum creatinine and plasma sodium levels. | 4 | 10 min. | 6 |
| 8. Requirements for poison information center.                                   | 4 | 10 min. | 6 |
| 9. Activities to be documented by clinical pharmacist and its significance.      | 4 | 10 min. | 6 |
| 10. Methods of detection of medication errors.                                   | 4 | 10 min. | 6 |

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**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)****DEGREE EXAMINATION****FOURTH YEAR****PAPER III – CLINICAL PHARMACY***Q.P. Code: 383821***Time: Three Hours****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :**

Pages (Max.)	Time (Max.)	Marks (Max.)
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- |   |    |         |    |
|---|----|---------|----|
| 1. Discuss the activities of clinical pharmacist in a multispecialty hospital.        | 17 | 40 min. | 20 |
| 2. a) Discuss various drug information resources with their benefits and limitations. |    |         |    |
| b) Causality assessment of Adverse Drug Reaction                                      | 17 | 40 min. | 20 |

**II. Write notes on :**

- |   |   |         |   |
|---|---|---------|---|
| 1. Discuss the laboratory test and interpretation of hematological disorders. | 4 | 10 min. | 6 |
| 2. Explain cycle of drug utilization evaluation.                              | 4 | 10 min. | 6 |
| 3. Renal function test and its significance.                                  | 4 | 10 min. | 6 |
| 4. Discuss the setting up of drug information centre.                         | 4 | 10 min. | 6 |
| 5. Cardiac function test and their significance.                              | 4 | 10 min. | 6 |
| 6. Role of pharmacist in management of adverse drug reaction.                 | 4 | 10 min. | 6 |
| 7. Discuss about verbal and nonverbal communication during counseling.        | 4 | 10 min. | 6 |
| 8. Importance of sodium and potassium in the body.                            | 4 | 10 min. | 6 |
| 9. Medication error reporting form in the hospital.                           | 4 | 10 min. | 6 |
| 10. Aim and scope of Pharmacovigilance in hospital setup.                     | 4 | 10 min. | 6 |

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[LC 821]

APRIL 2013

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Various categories of medication errors with example.
2. Elements, outcomes and process of Pharmaceutical care.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Principles and barriers of patient counseling.
2. Types and functions of drug utilization evaluation.
3. Roles of pharmacist in the management of adverse drug reaction.
4. Protocol for case presentation.
5. Liver function tests associated with hepatocellular injury.
6. Responsibilities of clinical Pharmacist in direct patient care areas.
7. Objectives and guideline of patient medication history interview.
8. Types of drug information resources.
9. Measures and cycle of clinical audit.
10. Various types of lung volumes.

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[LD 821]

OCTOBER 2013

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Discuss the protocol & importance of drug utilization review programme of a hospital.
2. What are the principles of pharmaceutical care?  
Add a note on quality assurance of Clinical Pharmacy services.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Scope of pre round participation in hospital.
2. Role of Liver enzymes in hepatic diseases.
3. Spontaneous case studies.
4. Tertiary information resources.
5. Verbal communication in patient counseling.
6. Types of medication errors.
7. Predisposing factors of adverse drug reactions.
8. Objectives of clinical pharmacy.
9. Components of biomedical literature review.
10. Poison information centre.

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[LE 821]

APRIL 2014

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Write a note on Patients Case History and its structure in brief with Examples.
2. Write a brief note on Definition, Scope and Aims of Pharmacovigilance.

**II. Write notes on:**

**(10 x 3 = 30)**

1. Explain the Significance and Methods involved in Assessing a Patients Case History.
2. Write a brief note on Mechanism of Adverse Drug Reactions with Examples.
3. How to Prevent an Adverse Drug Reaction in a Hospital setup.
4. Write a brief note on Haematological tests.
5. Briefly elaborate Patient Counselling Techniques including Communication skills.
6. Define the following:
  - a) Cellulitis.
  - b) Dysplasia.
  - c) Cholecystectomy.
7. Briefly describe Interpretation of Laboratory results of Thyroid Function Tests.
8. Explain about the Systematic approach in answering the Drug Information Queries.
9. Write a note on Drug & Poison Information Centres.
10. Write a note on Evaluation and Reporting of Adverse Drug Reactions.

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[LF 821]

OCTOBER 2014

Sub. Code: 3821

**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Pharmacovigilance, discuss in detail reporting and management of adverse drug reactions along with causality assessment scales.
2. Write in detail poison information services and poison information resources.
3. Write in detail:
  - a) Role of pharmacist in management of medication errors.
  - b) Critical Evaluation of biomedical literature.
4. Write in detail role of clinical pharmacist in drug therapy monitoring.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Patient counseling techniques.
2. Types of medication errors.
3. Quality assurance of clinical pharmacy services.
4. Tests associated with cardiac disorders.
5. Microbiological culture sensitivity tests.
6. Establishing a drug information centre.

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**DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**

**DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer All questions**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Medication errors, discuss in details types of medication errors with examples and role of pharmacist in management of medication errors.
2. What are the various sources of drug information?  
Write in detail systematic approach of answering drug information queries.
3. Write in detail about :
  - a) Quality assurance of clinical pharmacy services.
  - b) Drug utilization evaluation.
4. Describe patient counseling with suitable examples.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Hematological function tests.
2. Ward round participation.
3. Scales used in causality assessment of adverse drug reactions.
4. Write a brief note on pulmonary function test.
5. Define suspected adverse drug reactions. What is de-challenging and re-challenging?  
Give one example each.
6. Communication skills.

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[LH 821]

OCTOBER 2015

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION**

**(2009-2010 Regulation)**

**FOURTH YEAR**

**PAPER III – CLINICAL PHARMACY**

*Q.P. Code : 383821*

**Time: Three Hours**

**Maximum: 70 marks**

**Answer ALL questions**

**I. Elaborate on :**

**(4 x 10 = 40)**

1. Discuss Drug Utilisation Evaluation (DUE) and Drug Utilisation Renew (DUR).
2. What is ward round participation? Describe the types, procedure and the significances of ward round participation.
3. Write in detail on definition, development and scope of clinical pharmacy.
4. Types and mechanisms of adverse drug reactions.

**II. Write notes on :**

**(6 x 5 = 30)**

1. Renal function test and its significance.
2. How would you assess acute myocardial infarction with the aid of various laboratory investigations? Explain.
3. Write about the principles of management of establishing and provision of services of drugs information center in a teaching hospital.
4. Write the principles of pharmaceutical care?
5. Quality assurance of clinical pharmacy services.
6. Patient counseling.

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[LI 821]

APRIL 2016

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code : 383821*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on :**

**(4 x 10 = 40)**

1. Discuss the importance of Medication History in Therapeutic management of patients.
2. How would you assess Cardiac disorders with the aid of various laboratory investigations? Explain.
3. Write a note on Patients Case History and its structure in brief with Examples.
4. Discuss the activities of clinical pharmacist in a multispecialty hospital.

**II. Write notes on :**

**(6 x 5 = 30)**

1. Write the importance of Drug Utilization Evaluation (DUE).
2. Write brief notes on drug and poison information.
3. Medication error reporting form in the hospital.
4. Classification of Adverse Drug Reaction with examples.
5. Critical evaluation of biomedical literature.
6. Note on aim and scope of Pharmacovigilance in hospital setup.

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[LJ 821]

OCTOBER 2016

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time : Three hours**

**Maximum : 70 marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Discuss the laboratory test and interpretation of Hematological disorders.
2. Describe verbal and non verbal skills required for patient counseling with examples.
3. Explain about microbiological culture sensitivity tests.
4. Detail about critical evaluation of Biomedical Literature.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Reporting of Adverse Drug Reactions.
2. Medication chart review.
3. Brief about systematic approach in answering the Drug Information Queries.
4. Discuss on Renal function test and its significance.
5. What are the various types of Lung volumes to assess respiratory problems?
6. Pharmacist interventions in drug therapy monitoring.

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[LK 821]

MAY 2017

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time : Three hours**

**Maximum : 70 marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define Pharmacovigilance, discuss in detail reporting of adverse drug reactions along with causality assessment scales.
2. Write the various types of medication errors with example.
3. Write the liver function tests and its significance.
4. Discuss various drug information resources with their benefits and its limitations.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Critical evaluation of drug information and literature.
2. Tests associated with cardiac disorders.
3. Role of pharmacist in management of ADR.
4. Communication skills.
5. Scope of clinical pharmacy in India.
6. Importance of electrolytes in the body.

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[LL 821]

OCTOBER 2017

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code: 383821*

**Time : Three hours**

**Maximum : 70 marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Discuss the activities of clinical pharmacist in a multi-specialty hospital.
2. Brief about interpretation of Thyroid function tests.
3. Explain about elements, outcomes and process of pharmaceutical care.
4. Describe about types and mechanisms of adverse drug reactions.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Types of drug information resources.
2. Medication error reporting form in the hospital.
3. Methods of detection of medication errors.
4. Objectives of clinical pharmacy.
5. Importance of sodium and potassium in the body.
6. Patient medication history interview.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LM 821]

MAY 2018

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code : 383821*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Explain the process of DUE Cycle with examples.
2. Describe the systemic approach in answering queries received in drug information center.
3. How would you assess the Liver Cirrhosis with support of laboratory investigations?
4. Define and describe the different types of ward round participation for clinical pharmacist in a tertiary care hospital.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Causality assessment of adverse drug reactions using different scales.
2. Pharmacist interventions with examples.
3. Clinical review.
4. Role of pharmacist in management of medication errors.
5. Fluid and electrolyte balance.
6. Patient counseling techniques.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LN 821]

OCTOBER 2018

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code : 383821*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Define medication error and its reporting form with examples.
2. Enumerate the significance of various investigations in the clinical diagnosis of End Stage Renal Disease.
3. Describe the requirements to establish the Drug Information Centre in a hospital.
4. Medication chart review.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Quality Assurance of Clinical pharmacy service.
2. Communication skills.
3. Patient Medication History interview.
4. Patient case analysis and its structure.
5. Tests associated with cardiac disorders.
6. Importance of ward round participation.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LO 821]

MAY 2019

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code : 383821*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Write about definition, scope and development of clinical pharmacy in India.
2. Write in detail about Poison information centre.
3. Explain the tests which differentiate the Bronchial Asthma and Chronic Obstructive Pulmonary diseases.
4. Describe the Patient counselling techniques.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Critical evaluation of biomedical literature.
2. Thyroid function test.
3. Daily activities of clinical pharmacist in a hospital.
4. Medication errors.
5. Pharmaceutical care plan.
6. Explain about de-challenge and re-challenge in the assessment of ADRs with examples.

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THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 821]

OCTOBER 2019

Sub. Code: 3821

**PHARM. 'D' AND PHARM. 'D' (POST BACCALAUREATE)  
DEGREE EXAMINATION  
(2009-2010 Regulation)  
FOURTH YEAR  
PAPER III – CLINICAL PHARMACY**

*Q.P. Code : 383821*

**Time : Three hours**

**Maximum : 70 Marks**

**I. Elaborate on:**

**(4 x 10 = 40)**

1. Explain various stages of patient counselling and importance of communication skills. What are the main barriers faced by pharmacist in patient counselling?
2. Discuss the importance of : a) Medication chart review and b) Pharmacist interventions in patient care.
3. Explain how to perform quality assurance of drug information services?
4. Define and explain Drug utilization evaluation process.

**II. Write notes on:**

**(6 x 5 = 30)**

1. Microbiological culture and sensitivity tests and its significance in drug therapy.
2. Define and classify adverse drug reactions.
3. Briefly discuss on medication errors.
4. What are drug information resources? Give their advantages and disadvantages.
5. Write the importance of pharmacist participation in ward rounds.
6. Briefly discuss medication history interview by pharmacist and its significance.

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