Code No: G-13158/PCI

FACULTY OF PAHRMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, June 2025

Subject: Clinical Pharmacy Practice

Time: 3 hours **Max. Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. Define Medication order review and explain the steps involved in it. (10+5 Marks)
   Explain the international and national scenario of clinical pharmacy practice.

2. Discuss the following (6+9 Marks)
   (a) Quality assurance of clinical pharmacy
   (b) Patient medication counselling

3. Briefly explain the laboratory tests involved in evaluation of Liver functions. (10+5 Marks)
   Discuss the nonverbal communications required in patient care services.

4. Explain the following (9+6 Marks)
   (a) Microbiological culture and sensitivity tests
   (b) Cardiac markers

5. Discuss the following (5+10 Marks)
   (a) Establishment of drug information centre
   (b) Pharmaceutical Care cycle

6. Define Pharmacovigilance. Explain the different methods of pharmacovigilance. Add a note on Adverse Events Following Immunization. (10+5 Marks)

7. Discuss the steps in patient medication history interview. Explain the role of pharmacist in Drug Utilization Evaluation. (9+6 Marks)

8. Write notes on the following (8+7 Marks)
   (a) Interpretation of laboratory tests in Complete Blood Picture
   (b) Medicine information resources.

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Code No: G-13159/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I-Semester (PCI) (Main & Backlog) Examination, June 2025

Subject: Pharmacotherapeutics-I

Time: 3 Hours **Max Marks: 75**

Note: Answer any five Questions. All Questions carry equal marks.

1.	(a)	Discuss about types and etiopathogenesis of arrhythmias.	(8)
	(b)	Define and write the management of congestive heart failure.	(7)
2.	(a)	Discuss about types and etiopathogenesis of angina.	(8)
	(b)	Write the management of hypertension.	(7)
3.	(a)	Discuss about types and etiopathogenesis of hyperthyroidism.	(8)
	(b)	Discuss about etiopathogenesis and management of COPD.	(7)
4.		Discuss about types, etiopathogenesis and management of diabetes mellitus.	(15)
5.	(a)	Discuss about types and etiopathogenesis of peptic ulcer disease.	(8)
	(b)	Discuss about pharmacotherapy of inflammatory bowel diseases.	(7)
6.	(a)	Discuss about etiopathogenesis and management of diarrhea.	(10)
	(b)	Write short notes on drug induced liver disorders.	(5)
7.	(a)	Discuss about types and etiopathogenesis of anemia.	(8)
	(b)	Write short notes drug induced skin disorders.	(7)
8.	(a)	Discuss about etiopathogenesis of rheumatoid arthritis.	(8)
	(b)	Discuss about types and management of glaucoma.	(7)

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Code No. G-13160/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, June 2025

Subject: Hospital & Community Pharmacy

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1. Explain GMP in hospital pharmacy of a tertiary care hospital (15 Marks)

2 Explain the structural layout of hospital pharmacy department in connect with other Departments. (15 Marks)

3. a) What is inventory control and explain it. (10 Marks)
   b) Discuss the advantages and disadvantages of IV admixtures (5 Marks)

4. a) Discuss the roles and responsibilities of chief pharmacist in educating the staff for community health improvement (10 Marks)
   b) What is super drug store and explain it, (5 Marks)

5. a) Explain the code of ethics in community pharmacy (8 Marks)
   b) What are patient information leaflets, discuss it (7 Marks)

6. a) What is medication adherence? Explain different strategies to improve medication adherence in patients. (15 Marks)

7. Give a detailed account on the prevention of non-communicable diseases & communicable diseases. (15 Marks)

8. a) What is family planning? Role of community pharmacist in promotion of family Planning (10 Marks)
   b) Write a brief note on community research. (5 Marks)

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Code No: G-13161/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, June 2025

Subject: Clinical Research

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. a) Write the importance of clinical studies in drug discovery. (7 Marks)
   b) Describe about the INDA submission process. (8 Marks)

2. a) Write the ethics in biomedical research. (7 Marks)
   b) Explain about the composition and functions of IRB. (8 Marks)

3. a) Write a note on randomization techniques. (7 Marks)
   b) Describe about the ICH GCP guideline. (8 Marks)

4. a) Explain about bioavailability & bioequivalence studies. (7 Marks)
   b) Write a note on observational studies. (8 Marks)

5. a) Write a note on responsibility of sponsor in clinical studies. (7 Marks)
   b) Describe about the role of CRO in clinical research. (8 Marks)

6. a) Explain in brief about clinical trial protocol. (7 Marks)
   b) Write a note on investigator brochure. (8 Marks)

7. a) Describe the close out visit report. (7 Marks)
   b) Explain the trail master file preparation and maintenance. (8 Marks)

8. a) Explain about the quality control and quality assurance in clinical trials. (7 Marks)
   b) Write note on data mining and warehousing. (8 Marks)

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Code No: G-13017/PCI

FACULTY OF PHARMACY
M.Pharmacy (Pharm.Practice) I – Semester (PCI) (Backlog) Examination,
December 2024

Subject: Clinical Pharmacy Practice

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. Explain the following
   (a) Evolution of Clinical Pharmacy
   (b) Quality assurance of clinical pharmacy services

2. Give a detailed account of Medication Order Review. Add a note on Clinical Review and Chart Endorsement.

3. Discuss the following
   (a) Prevention and Monitoring of AEFI
   (b) Recipient hemovigilance under Hemovigilance Program of India

4. (a) Explain the communication skills necessary for providing effective pharmaceutical care.
   (b) Explain the significance of patient's case history in drug therapy management.

5. Explain the following
   (a) Organization and functions of Poison Information Centre
   (b) Interpretation of Thyroid function tests

6. (a) Define the term Pharmaceutical care. Explain the Pharmaceutical care cycle in detail.
   (b) List out different abbreviations used in prescriptions for dose frequency or timing.

7. Describe the components and their interpretation for the following laboratory tests
   (a) Renal function tests
   (b) Liver function tests

8. (a) Discuss various medicine information resources with examples.
   (b) Briefly explain pulmonary function tests.

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Code: G-13028/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I – Semester (PCI) (Backlog) Examination, December 2024

Subject: Pharmacotherapeutics-I

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks. (5 x 15= 75 Marks)

1. (a) Discuss about types and etiopathogenesis of arrhythmias. (8)
   (b) Define and write the management of angina pectoris. (7)

2. (a) Discuss about types and etiopathogenesis of hypertension. (8)
   (b) Define and write the management of congestive cardiac failure. (7)

3. (a) Discuss about types and etiopathogenesis of diabetes mellitus. (8)
   (b) Define and write the management of asthma. (7)

4. (a) Write notes on drug induced pulmonary disorders. (8)
   (b) Discuss about etiopathogenesis and management of jaundice. (7)

5. Discuss about types, etiopathogenesis, and treatment of peptic ulcer disease. (15)

6. (a) Discuss about management of diarrhoea. (7)
   (b) Write short notes on drug induced liver disorders. (8)

7. (a) Discuss about types, etiopathogenesis of anaemia. (8)
   (b) Write short notes on etiopathogenesis and management of psoriasis. (7)

8. (a) Give an account of osteoporosis and its therapeutic management. (8)
   (b) Discuss about types and etiopathogenesis of glaucoma. (7)

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Code No: G-13018/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Backlog) Examination, December 2024

Subject: Hospital & Community Pharmacy

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Explain OPD billing procedure in hospital. [10]
   (b) Discuss the strategies to reduce Nosocomial infections in hospital. [5]

2. (a) Discuss the documentation of patient reports in In Pharmacy department. [10]
   (b) Explain the procedure of antimicrobial stewardship in hospital. [5]

3. (a) What is unit dose system, explain it. [5]
   (b) Discuss the advantages and disadvantages of IV admixtures. [10]

4. (a) Discuss the roles and responsibilities of community pharmacies. [10]
   (b) What is super drug store and explain it. [5]

5. (a) Explain the training procedure for technical and non technical staff in community Pharmacies. [8]
   (b) What are patient information leaflets, discuss it? [7]

6. What is prescription? Discuss in detail about prescription and its related problems. [15]

7. Give a detailed account on algorithm used in the prevention of non communicable diseases. [15]

8. (a) What is DOTS program and DOTS regimen. Discuss the role of community pharmacist in it. [10]
   (b) Write a note on community research. [5]

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Code No: G-13019/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Backlog) Examination, December 2024

Subject: Clinical Research

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Write the ICH GCP guideline. [7]
   (b) Describe the INDA submission. [8]

2. (a) Write a note on BA-BE studies. [7]
   (b) Explain about the randomization techniques. [8]

3. (a) Write a note on pre-study visit and investigator meeting. [7]
   (b) Describe about the case report form and informed consent form. [8]

4. (a) Explain the essential documents for close out report. [7]
   (b) Write a note on master file preparation. [8]

5. (a) Write a note on SOPs for clinical trail. [7]
   (b) Describe the management of laboratory data and ADR data. [8]

6. (a) Explain in brief about the ethical issues in biomedical research. [7]
   (b) Write a note on types of research designs. [8]

7. (a) Describe the health outcome measures in clinical research. [7]
   (b) Explain the role and responsibility of sponsor and CRO. [8]

8. (a) Explain about the CRF tracking and corrections. [7]
   (b) Write a note on planning and execution of clinical trail. [8]

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Code No: F-7255/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharma. Practice) I – Semester (PCI) (Main & Backlog) Examination, June 2024

Subject: Clinical Pharmacy Practice

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Define Clinical Pharmacy. Explain the scope of Clinical Pharmacy in the current scenario.
   (b) What is the role of clinical pharmacist in medication history taking?

2. (a) Discuss different drug therapy problems and explain the interventions for each of them.
   (b) Explain the role of clinical pharmacist during ward rounds.

3. (a) Discuss the steps involved in patient medication counselling.
   (b) Explain the modified systematic way of answering a drug information request.

4. Define pharmacovigilance. Explain the following
   (a) Reporting of suspected adverse drug reactions
   (b) Recording, reporting and monitoring of AEFI in India

5. Discuss is the importance of communication skills in clinical pharmacy practice? Explain verbal and nonverbal communication skills necessary in patient-care.

6. Write detailed notes on
   (a) Establishment of Drug information Centre
   (b) Preparation of written reports

7. Describe the following laboratory investigation in detail
   (a) Microbiological culture and sensitivity tests
   (b) RBC indices

8. Define Materiovigilance and explain the concept of Materiovigilance program of India. Give a detailed account of Fluid and Electrolyte balance.

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Code No: F-7258/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, June 2024

Subject: Clinical Research

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Write the various approaches to drug discovery. [7]
   (b) Describe the ICMR guideline to conduct clinical trials. [8]

2. (a) Write the various phases of clinical trials. [7]
   (b) Explain about the sampling methods. [8]

3. (a) Write a note on informed consent process. [7]
   (b) Describe about the investigator brochure. [8]

4. (a) Explain the essential documents for clinical trials. [7]
   (b) Write a note on procurement and storage of investigational product. [8]

5. (a) Write a note on responsibility of stake holder in audit process. [7]
   (b) Describe the types of audits. [8]

6. (a) Explain in brief about data mining and warehousing. [7]
   (b) Write a note on investigational product reconciliation and destruction. [8]

7. (a) Describe the ethics committee document preparation and submission. [7]
   (b) Explain the responsibility of investigator and coordinator. [8]

8. (a) Explain about the drug safety reporting. [7]
   (b) Write the composition and functions of ethics committee. [8]

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Code No: F-7257/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, June 2024

Subject: Hospital & Community Pharmacy

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Explain the inventory management in hospital. [10]
   (b) Discuss the responsibilities of hospital ethics committee. [5]

2. (a) Discuss the objectives, functions and policies of PTC (Pharmacotherapeutics committee) in hospital. [10]
   (b) What is medication chart and explain every component in medication chart. [5]

3. Discuss the detailed procedure of hospital waste management. [15]

4. (a) What is clinical audit and explain it. [5]
   (b) Discuss the detailed legal requirements to establish a community pharmacy. [10]

5. (a) Write a short note on entrepreneurship in community pharmacy. [5]
   (b) Discuss the strategies to improve medication adherence. [10]

6. Describe the detailed procedure in ADR monitoring in community pharmacy. [15]

7. (a) Write a note on rational use of over the counter medications. [8]
   (b) Write a note on health screening services in community. [7]

8. (a) Describe the role of community pharmacist in mother and child care. [8]
   (b) Discuss the strategic approach in the prevention of malaria and responsibility of community pharmacist. [7]

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Code No: F-7256/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I – Semester (PCI) (Main & Backlog) Examination, June 2024

Subject: Pharmacotherapeutics – I

Time: 3 Hours **Max.Marks:75**

Note: Answer any five questions. All questions carry equal marks.

1. a) Explain the etiology, pathophysiology and therapeutic management of Hypertension with algorithm. [10]
   b) Discuss the role of beta blockers in Heart failure. [5]

2. a) Write a note on Hormone replacement therapy. [8]
   b) Describe the etiology and management of Osteoporosis. [7]

3. a) Write a note on different types of Insulins. [6]
   b) Classify oral anti-diabetic drugs and discuss the micro vascular complications of Diabetes mellitus. [9]

4. a) What is Atherosclerosis? Explain the development of Atherosclerosis. [7]
   b) Write the pathophysiology, Pharmacotherapy and complications of hyperlipidemia. [8]

5. a) Differentiate between Asthma and COPD. [4]
   b) Write a note on drug induced pulmonary diseases. [7]
   c) Mention the role of Steroids in the management of Bronchial Asthma. [4]

6. a) Differentiate between Jaundice and Hepatitis. [5]
   b) Write a note on the management of Reflux esophagitis. [6]
   c) Describe the pharmacotherapy of Diarrhea. [4]

7. a) Describe the pharmacotherapy and clinical manifestations of Psoriasis. [5]
   b) Describe the etiology of bilateral conjunctivitis. [5]
   c) Write a note on management of Deep Vein Thrombosis. [5]

8. a) Write the etiopathogenesis and pharmacotherapy of Glaucoma and Conjunctivitis. [10]
   b) Mention pharmacological management of Gout. [5]

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Code No: E-12437/PCI

FACULTY OF PHARMACY

M.Pharmacy (Pharmacy Practice) I-Semester (PCI) (Backlog) Examination, November-2023

Subject: Clinical Pharmacy Practice

Time: 3 Hours **Max. Marks: 75**

Note: Answer any Five Questions. All Questions carry Equal marks.

1. (a) Discuss the evolution of clinical pharmacy practice and its scenario in the modern world.
   (b) Discuss different types of pharmacist's interventions with suitable examples (6+9)

2. (a) Explain the DUE cycle in detail.
   (b) Add a note on the role of clinical pharmacist in medicine use evaluation. (10+5)

3. (a) Define and explain the methods of Pharmacovigilance.
   (b) Give an account of Materiovigilance programme of India (10+5)

4. (a) Discuss the communication skills required for efficient patient counseling.
   (b) Add a note on strategies to overcome the barriers during counseling. (10+5)

5. (a) Explain all the haematological tests included in complete blood picture with their appropriate interpretations. (10+5)
   (b) Explain the reference ranges and significance of Serum Creatinine and BUN.

6. (a) Discuss the prerequisites for the establishment of Drug Information Centre.
   (b) Explain the preparation of written responses while answering a drug information request. (8+7)

7. (a) Compare and contrast tertiary and primary drug information resources. (7+8)
   (b) Discuss Liver Function Tests in detail.

8. (a) Describe pharmaceutical care concept.
   (b) Define and discuss the role of clinical pharmacist in patient Medication History Interview. (7+8)

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Code No: E-12440/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy practice) I Semester (PCI) (Backlog) Examination, November 2023

Subject: Clinical Research

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Explain drug development process in detail. [9]
   (b) Write a note on principles of ethic in bio medical research. [6]

2. (a) Explain different randomization techniques. [6]
   (b) Explain the types of research designs based on controlling methods and time Sequences. [9]

3. Write a note on preparation of guidelines for
   (a) Protocol [5]
   (b) Contracts and agreements [5]
   (c) Informed Consent Form [5]

4. (a) Write a note on procurement and storage of investigational product. [7]
   (b) Write in detail about filing procedures [8]

5. (a) Explain in detail clinical trial data management in detail. [7]
   (b) Explain about quality assurance and quality control in clinical trials. [8]

6. (a) Write in detail on sampling methods and health outcome measures with examples. [10]
   (b) Write a note on challenges in implementation of ethical guidelines. [5]

7. What are the roles and responsibilities of
   (a) Contract research organization. [5]
   (b) Study Coordinator. [5]
   (c) Monitor. [5]

8. (a) Write a note on planning and execution of Clinical trials. [5]
   (b) Write about bio equivalence and bio availability studies. [5]
   (c) Discuss various phases of clinical trials. [5]

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Code: E-12438/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I – Semester (PCI) (Backlog) Examination, November 2023

Subject: Pharmacotherapeutics-I

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks. (5 x 15= 75 Marks)

1.	(a)	Discuss about types and etiopathogenesis of hyperlipidemias.	[8]
	(b)	Define and write the management of arrhythmias.	[7]
2.	(a)	Discuss about types and etiopathogenesis of angina.	[8]
	(b)	Write the management of hypertension.	[7]
3.	(a)	Discuss about types and etiopathogenesis of asthma.	[8]
	(b)	Write the pathogenesis and management of hyperthyroidism.	[7]
4.		Discuss about types, etiopathogenesis and management of diabetes mellitus.	[15]
5.	(a)	Discuss about types and etiopathogenesis of peptic ulcer disease.	[8]
	(b)	Discuss about pharmacotherapy of inflammatory bowel diseases.	[7]
6.	(a)	Discuss about etiopathogenesis and management of diarrhoea.	[10]
	(b)	Write short notes on liver cirrhosis.	[5]
7.	(a)	Classify different types of anaemia and explain the pathophysiology and Management of Iron deficiency anaemia.	[8]
	(b)	Write short notes on drug induced skin disorders.	[7]
8.	(a)	Discuss about etiopathogenesis of rheumatoid arthritis.	[7]
	(b)	Discuss about types and management of glaucoma.	[8]

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Code No: E-12314/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I – Semester (PCI) (Main & Backlog) Examination, May 2023

Subject: Pharmacotherapeutics – I

Time: 3 Hours **Max.Marks:75**

Note: Answer any **FIVE** questions. All Questions carry Equal Marks.

1. a) Discuss different types of angina and pharmacotherapy of angina. [10]
   b) Explain the electrophysiology of heart. [5]

2. a) Write the management of thyroid disorders [8]
   b) Explain the indications of Hormone replacement therapy. [7]

3. a) Discuss Megaloblastic anemia. [6]
   b) Write in detail prophylaxis and treatment of Deep Vein Thrombosis. [9]

4. a) What are DMARDs? Discuss their role in the treatment of rheumatoid arthritis. [6]
   b) Write in detail etiopathogeneisis, and treatment of post – menopausal osteoporosis. [9]

5. a) Discuss the trigger factors and pharmacotherapy of Asthma. [8]
   b) Write a note on drugs used in Chronic Obstructive Pulmonary Disease. [7]

6. a) Write the etiology and treatment of Peptic ulcer. [5]
   b) Discuss the pharmacological management of any two inflammatory bowel diseases. [10]

7. a) Write the management of open angle glaucoma. [5]
   b) Write a note on Oral contraceptives. [5]
   c) Discuss drug induced liver diseases. [5]

8. a) Discuss about secondary dyslipidemia. [5]
   b) Write the pharmacotherapy of Reflux esophagitis. [6]
   c) Write the pharmacotherapy of Hepatitis. [4]

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Code No: E-12315/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I-Semester (PCI) (Main & Backlog) Examination, May-2023

Subject: Hospital & Community Pharmacy

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1. (a) Write the organization and functions of hospital pharmacy. [8]
   (b) Explain the concept of drug exchange program. [7]

2. (a) What is hospital formulary? Explain its contents, preparation. [8]
   (b) Discuss about NABH guidelines for management of medicines. [7]

3. (a) What are various drug distribution systems for In-patients? [7]
   (b) Write the Composition and functions of Pharmacy and Therapeutics Committee. [8]

4. (a) Explain the selection of site, space layout and design of a community pharmacy outlet. [8]
   (b) Explain the importance of Drug Information Centre. [7]

5. (a) Write briefly about prescription filing and patient medication profile. [8]
   (b) Explain the guidelines of home medicines review program. [7]

6. (a) Classify different family planning methods. What are the standards required for good pharmacy practice? [8]
   (b) Describe the role of community pharmacist in control of tuberculosis. [7]

7. (a) Discuss the community pharmacy role in relationship to other health care providers. [8]
   (b) Describe about the rational use of common OTC medications. [7]

8. (a) Define and write the strategies to improve medication adherence. [8]
   (b) Write about ADR monitoring in community pharmacies. [7]

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Code No: E-12313/PCI

FACULTY OF PHARMACY

M.Pharmacy (Pharmacy Practice) I-Semester (PCI) (Main & Backlog) Examination, May-2023

Subject: Clinical Pharmacy Practice

Time: 3 Hours **Max. Marks: 75**

Note: Answer any Five Questions. All Questions carry Equal marks.

1. (a) Define clinical pharmacy and discuss its scope in the current global circumstances (10+5)
   (b) Discuss the role of clinical pharmacist during ward rounds.

2. (a) Explain the pharmaceutical care process with an emphasis on the role of clinical pharmacist at each step.
   (b) Discuss the importance of documentation in clinical pharmacy. (10+5)

3. (a) Explain the modified systematic way of responding to drug information requests.
   (a) Add a note on Quality assurance of clinical pharmacy services. (7+8)

4. (a) Briefly explain the non-verbal communication skills required by a pharmacist in delivering patient care.
   (b) Write a short note on Hemovigilance program of India. (8+7)

5. Explain the structure of a patient's case history. Discuss how this data will be helpful in drug therapy management (15)

6. (a) What do you understand by fluid and electrolyte balance. Discuss the consequences of loss of fluid and electrolyte balance. (7+8)
   (b) Give a detailed account of the laboratory tests associated with cardiac disorders.

7. (a) Explain different drug information sources with their advantages and disadvantages. (8+7)
   (b) Explain the organization and functions of poison information centre.

8. (a) Briefly discuss the steps involved in medication order review. (7+8)
   (b) Write a note on estimation of eGFR and Creatinine Clearance.

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Code No: E-12316/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy practice) I - Semester (PCI) (Main & Backlog) Examination, May 2023

Subject: Clinical Research

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

(5 x 15 = 75 Marks)

1. (a) Write a note on Ethics in Biomedical research. [7]
   (b) Explain the composition and functions of Ethics Committee. [8]

2. (a) Write a note on ICH guidelines and ICMR guidelines in conduct of clinical trials. [10]
   (b) Explain drug safety reporting. [5]

3. (a) Write a note on clinical trial start up activities. [10]
   (b) Define and explain various phases of clinical trials. [5]

4. Write a note on roles and responsibilities of
   (a) Investigator [5]
   (b) Sponsor [5]
   (c) CRO [5]

5. (a) Explain different sampling methods and health outcome measures. [6]
   (b) Write a note on types of research designs based on controlling methods and time sequences. [9]

6. Write a note on preparation guidelines of
   (a) Informed consent form [5]
   (b) Case report forms [5]
   (c) Investigators brochure [5]

7. (a) Explain in detail filling procedures for a clinical trial [8]
   (b) Explain how data is managed in a clinical trial. [7]

8. (a) Explain how quality assurance and quality control in maintained in a Clinical trial. [8]
   (b) Write in detail about preparation and conduct of monitoring visit and how a close out visit is done. [7]

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Code No. E-12084/PCI

FACULTY OF PHARMACY

M. Pharmacy (Common to All) I - Semester (PCI) (Backlog) Examination, December 2022

Subject: Modern Pharmaceutical Analytical Techniques

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1 (a) With a neat labelled diagram explain UV/Visible spectrophotometer instrumentation.
(b) What are the applications of UV spectroscopy?

2 (a) Explain the molecular vibrations in IR.
(b) Write the sampling methods in IR spectroscopy.

3 (a) Explain the principle of fluorescence.
(b) With a diagram explain the instrumentation for flame photometry.

4 (a) Explain the principle of proton NMR spectroscopy.
(b) Explain the following in NMR spectroscopy: Shielding and deshielding, chemical shift.

5 (a) Explain the principle of mass spectroscopy.
(b) Explain any two mass analysers used in MS in detail.

6 (a) Explain GC instrumentation with a labelled diagram. Add a note on the different types of GC columns.
(b) List and explain any 2 GC detectors.

7 (a) Explain Braggs equation and derive the equation.
(b) Explain the principle and types of Paper electrophoresis.

8 (a) Explain the principle and applications of ELISA?
(b) Explain the principle and applications of capillary electrophoresis.

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Code No. E-12103/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Backlog) Examination, December 2022

Subject: Clinical Research

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1 (a) Write a note on Ethics in Biomedical research.
(b) Explain the constitution and functions of IRB.

2 (a) Write a note on ICH guidelines in conduct of clinical trials.
(b) Explain drug safety reporting.

3 (a) Explain the types and designs used in Clinical Research.
(b) Define and explain various phases of clinical trials.

4 Write a note on roles and responsibilities of
(a) Investigator
(b) Sponsor
(c) CRO

5 (a) Explain different sampling methods.
(b) Explain various health outcome measures.
(c) Explain research designs based on time sequence.

6 Write a note on preparation guidelines of
(a) Protocol
(b) Informed Consent Form

7 (a) Explain in detail filing procedures for a clinical trial.
(b) Explain how data is managed in a clinical trial.

8 (a) Explain how quality assurance and quality control in maintained in a Clinical trial.
(b) Write a note on procurement and storage of investigational product.

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Code No. E-12100/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I Semester (PCI) (Backlog) Examination, December 2022

Subject: Clinical Pharmacy Practice

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1 (a) Define Clinical Pharmacy. Explain the evolution of Clinical Pharmacy with an emphasis on its development in India.
(b) Write a short note on Clinical Review and Ward Round Participation.

2 (a) Give a detailed account of different Drug Therapy Problems encountered during medication chart review and suggest corrective measures for each problem.
(b) Describe the pharmaceutical care cycle.

3 (a) Explain the process of Medication History Interview and its importance in provision of patient care.
(b) Explain Hemovigilance and Materiovigilance in brief.

4 (a) What are the different methods of patient data analysis? Explain the SOAP analysis of patient data.
(b) Explain the following: K/C/O, HPI, HEENT, ROS, PERRLA, HbsAg.

5 Explain the interpretation of the following tests
(a) Liver Function Tests
(b) Sodium
(c) Calcium

6 Explain the following
(a) Drug Utilization Studies
(b) Quality assurance of clinical pharmacy services.

7 (a) Write a detailed note on preparation of verbal and written responses while answering medicine information of query.
(b) Explain the sources of medicine information with examples.

8 (a) Explain the steps involved in patient counselling.
(b) Write a note on RBC indices and their interpretation.

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Code No. E-12102/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Backlog) Examination, December 2022

Subject: Hospital & Community Pharmacy

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. All the questions carry equal marks.

1 (a) Discuss about legal and infrastructural requirements of hospital pharmacy.
(b) Explain the organization of hospital pharmacy.

2 (a) Explain about various drug distribution procedures in hospital.
(b) Write a note on infection control committee.

3 (a) Describe about guidelines of hospital formulary.
(b) Explain about management of hospital pharmacy.

4 (a) Write about training and continual education of pharmacy students and pharmacists in hospital.
(b) What are various inventory control procedures in hospital pharmacy?

5 (a) Discuss about different software and data bases used in community pharmacy.
(b) What are the roles and responsibilities of community pharmacist.

6 (a) Define, discuss Legality and identification of medication related problems of prescription.
(b) Write about ADR monitoring in community pharmacies.

7 Discuss about factors influencing and strategies to improve medication adherence.

8 (a) Explain the role of community pharmacist in malaria control program.
(b) Explain the guidelines of home medicines review program.

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Code No. D-8261/PCI

FACULTY OF PHARMACY

M. Pharmacy I - Semester (Common to All) (PCI) (Main & Backlog) Examination, May 2022

Subject: Modern Pharmaceutical Analytical Techniques

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. **(5 x 15 = 75 Marks)**

1 (a) State and explain Beer-Lambert's Law. Add a note on the deviations from Beer's law.
(b) Explain the concept of chromophore, auxochrome and bathochromic shift with suitable examples.

2 (a) Explain the instrumentation of FTIR with a neat labelled diagram. Add a note on the advantages of FTIR.
(b) Explain the mplecular vibrations in IR.

3 (a) What is the principle AAS? Explain the instrumentation.
(b) List the differences between AAS and flame photometry.

4 What is the significance of chemical shift? What are the factors affecting chemical shift? Name the internal standard and justify its selection as internal standard in NMR spectroscopy.

5 What is the principle of Mass Spectrometry? With a neat labelled diagram briefly explain the components of MS instrumentation.

6 (a) Classify the ionization techniques in MS. Explain any three methods in detail.
(b) Define Base peak, molecular ion peak and metastable ion.

7 (a) Explain the principle of X-ray diffraction.
(b) Explain HPLC instrumentation with a labelled diagram.

8 (a) Explain the experimental set up required for gel electrophoresis.
(b) Describe the principle and applications of RIA.

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Code No. D-8277/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I-Semester (PCI) (Main & Backlog) Examination, May 2022

Subject: Clinical Pharmacy Practice

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. **(5 x 15 = 75 Marks)**

1 (a) Explain the steps involved in Medication chart Review.
(b) Give a detailed account of Pharmacist's Interventions.

2 (a) Discuss the scope of Clinical Pharmacy.
(b) Explain the determination, reference ranges and significance of CKMB and Troponins in cardiology.

3 (a) Define pharmacovigilance. Write a note on causality assessment of ADEs and role of pharmacist in pharmacovigilance.
(b) Defien AEFI. Explain the categories of AEFI.

4 (a) Give a detailed account of structure and significance of Patient's case history in drug therapy management.
(b) What do you understand by the following clinical terms: **Icterus, Cyanosis, Afebrile.**

5 Explain the following with interpretations of results:
(a) Pulmonary Function Tests
(b) Microbiological culture and sensitivity tests
(c) Thyroid function tests

6 (a) Explain the systematic approach in answering a drug information query.
(b) Explain the functions of Poison Information Centre.

7 Briefly explain the following:
(a) Poison Information Resources
(b) Organization of Drug Information Centre
(c) Concept of Pharmaceutical Care

8 (a) Describe the communication skills and its applications in patient care services.
(b) What are the barriers to Patient Counselling and suggest strategies to overcome these barriers?

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Code No. D-8280/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, May 2022

Subject: Clinical Research

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. **(5 x 15 = 75 Marks)**

1 (a) Explain drug development process in detail.
(b) What are the challenges in implementation of ethical guidelines?

2 (a) Explain different randomization techniques.
(b) Explain the types of research designs based on controlling methods and time sequences.

3 Write a note on preparation guidelines of
(a) Protocol
(b) Investigators brouchure
(c) Case report forms

4 (a) Write a note on procurement and storage of investigational product.
(b) Explain Close out-visit in detail.

5 (a) Explain in detail clinical trial data management in detail.
(b) Explain about quality assurance and quality control in clinical trials.

6 (a) Explain about clinical trial start up activities briefly.
(b) Explain about health outcome measures.

7 What are the roles and responsibilities of
(a) Contract research organisation
(b) Study Coordinator
(c) Monitor

8 (a) Explain the principles of ethics in Biomedical research.
(b) Write about bioequivalence and bioavailability studies.

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Code No. D-8279/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I - Semester (PCI) (Main & Backlog) Examination, May 2022

Subject: Hospital & Community Pharmacy

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. **(5 x 15 = 75 Marks)**

1 (a) Describe the organization and responsibilities of Pharmacy and Therapeutic. Committee.
(b) Describe the organization of a hospital and the role of hospital pharmacist.

2 (a) Describe the composition and responsibilities of research and ethics committee.
(b) Discuss the NABH regulations for management of medicines?

3 (a) Write about development and guidelines of hospital formulary.
(b) Describe the importance of training of healthcare professionals.

4 (a) Describe the role and responsibilities of community pharmacist.
(b) Write the staff required in community pharmacy.

5 (a) What is self-medication? Write the Role of pharmacist in prevention of self-medication.
(b) Discuss about different software and data bases used in community pharmacy.

6 (a) Explain about super drug store model and good dispensing practices.
(b) Write a note on patient information leaflet.

7 (a) Describe the primary health care in smoking cessation and nutrition.
(b) Write about the rational use of OTC medications.

8 (a) Describe various steps for prevention of various communicable diseases.
(b) Describe the role of community pharmacist in TB control program.

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Code No. D-8278/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmacy Practice) I-Semester (PCI) (Main & Backlog) Examination,May 2022

Subject: Pharmacotherapeutics - I

Time: 3 Hours **Max. Marks: 75**

Note: Answer any five questions. **(5 x 15 = 75 Marks)**

1 (a) Write the Clinical manifestations and etiopathogenesis of Primary Open Angle Glaucoma (POAG).
(b) Write the pharmacotherapy of Primary Open Angle Glaucoma (POAG).

2 (a) Write any 3 causes of Peptic Ulcer Disease (PUD).
(b) Write the etiopathogenesis of H. pylori induced PUD.
(c) Explain the pharmacotherapy of Peptic Ulcer Disease.

3 (a) Define Hyperlipidaemia
(b) Write the pharcotherapy of Essential Hypertension
(c) Differentiate between STEMI and NSTEMI.

4 (a) Write a note on drug induced liver diseases.
(b) Write about the management of Cirrhosis.

5 (a) Write about the various types of Anemia.
(b) Explain the management of Deep Vein Thrombosis.

6 (a) Explain the pathophysiology of Psiriasis.
(b) Write about the drug induced skin disorders.

7 (a) What are DMARDs, Explain in detail.
(b) Explain the management of Gout.

8 (a) Define Cretinism
(b) Write the etiopathogenesis of Bronchial Asthma
(c) Explain the pharmacotherapy of Chronic Obstructive Airway Disease (COAD).

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