

QP Code:

Reg. No.:.....

First Year Pharm. D Post Baccalaureate Degree Examinations

(Model Question Paper)

Pharmacotherapeutics I & II

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Explain the aetiology, pathophysiology, clinical significance, non pharmacological approach for control and stepwise treatment for asthma.
2. Define angina pectoris and myocardial infarction, briefly outline different types of angina and give the etiopathogenesis of myocardial Infarction. Explain therapeutic management of MI.
3. Explain the aetiology, pathophysiology and therapeutic management of diabetes Mellitus. Add a note on insulin.

Short notes

(8x5=40)

4. Describe the prescribing guidelines for paediatric patients.
5. Management of chemotherapy induced nausea and vomiting.
6. Briefly explain about psoriasis.
7. Therapeutic management of glaucoma.
8. Define essential drug list and explain the role of pharmacist in rational drug use.
9. Outline the aetiology of acute renal failure and therapeutic management of chronic renal failure.
10. Therapeutic management of hypertension with special reference to drug of choice.
11. Pathophysiology and pharmacotherapy of tuberculosis with focus on multidrug resistant tuberculosis.

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First Year Pharm. D Post Baccalaureate Degree Examinations

(Model Question Paper)

Pharmacotherapeutics III

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Explain in detail the pathophysiology and pharmacotherapy of peptic ulcer. Discuss the differences between gastric ulcer and duodenal ulcer.
2. Classify different types of anaemias. Explain the pathophysiology and treatment of anaemias.
3. Define stroke. Add a note on etiopathogenesis and its therapeutic management.

Short notes

(8x5=40)

4. Schizophrenia and its therapeutic management.
5. Discuss the pathophysiology and therapeutic management of inflammatory bowel disease.
6. Chart out and explain the algorithm for epilepsy and therapeutic management of epilepsy.
7. Discuss the pathophysiology and therapeutic management of anxiety disorders.
8. Write notes on headache. Explain the pathophysiology and treatment of headache.
9. Discuss the pathophysiology, applied therapeutics and drug of choice in the management of Venous thromboembolism.
10. Pathophysiology and therapeutic management of epilepsy.
11. Explain pain pathways. Discuss the management of various types of pain.

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(Model Question Paper)

Hospital Pharmacy

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. What are the various methods of inventory control. Explain in detail about ABC and VED analysis.
2. Explain various drug distribution method in a hospital. Add notes on unit dose dispensing.
3. Define PTC and mention the objective of PTC. Explain the operation and role of PTC.

Short notes

(8x5=40)

4. Organization of a hospital pharmacy and roles and responsibilities of hospital pharmacist.
5. Define hospital formulary. Explain its contents and advantages and disadvantages.
6. Research and ethics committee in a hospital
7. What are radio pharmaceuticals. Discuss the handling and packaging of radiopharmaceuticals in a hospital.
8. Discuss the hospital pharmacy communications with emphasis on news letters in hospital pharmacy.
9. Explain the role of pharmacist in central sterile supply services.
10. What is total parenteral nutrition. Explain its components and compounding of TPN.
11. Discuss the professional relations and practices of hospital pharmacist.

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(Model Question Paper)

Clinical Pharmacy

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Define drug information centre. Mention the resources and systematic approach in answering a D I query. Enumerate on poison information.
2. Define, classify and mechanism of ADR. Explain on the role of pharmacist in prevention and management of ADR.
3. Define and explain medication error. Add a note on drug therapy monitoring.

Short notes

(8x5=40)

4. Development and scope of clinical pharmacy.
5. Ward round participation.
6. Pulmonary function tests.
7. Patient counselling techniques.
8. Pharmaceutical care.
9. Critical evaluation of biomedical literature.
10. Tests associated with cardiac disorders.
11. Drug utilization evaluation.

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(Model Question Paper)

Biostatistics & Research Methodology

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*
- *Use only ordinary calculator*

Essays:

(3x10=30)

1. Discuss sample size determination in detail.
2. Explain the uses of computers in drug information retrieval and storage.
3. The fat content in Ice cream made by a firm is examined in two laboratories as given below
Lab A : 7 8 7 3 8 6 9 4 7 8
Lab B : 9 8 8 4 7 7 9 6 6 6
Is there a significant difference between the mean fat content obtained by the two laboratories.

Short notes

(8x5=40)

4. Calculate the correlation coefficient for the following data
X : 40 44 58 55 89 98 66
Y : 56 49 53 58 65 76 58
5. Describe the case study method.
6. Three processes A, B and C are tested to see whether their outputs are equivalent. Following observations are obtained.
A : 10 12 13 13 10 14 15 13
B : 9 11 10 12 13
C : 11 10 15 14 12 13
Carry out the analysis of variance and state your conclusion.
7. Explain null hypothesis with example
8. Attribute risks.
9. Type I and Type II errors.
10. Graphical presentation
11. Calculate the mean of the following data :
Class : 0-10 10-20 20-30 30-40 40-50
Frequency : 5 10 40 20 25

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(Model Question Paper)

Biopharmaceutics & Pharmacokinetics

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Derive the pharmacokinetic equation to describe plasma drug concentration when a drug administered via i.v.route, confers on the body two compartment model
2. Discuss the physicochemical factors affecting the drug absorption.
3. Discuss the design and protocol for single dose bioavailability study

Short notes

(8x5=40)

4. Discuss briefly the methods for the assessment of bioavailability.
5. Drug elimination
6. Discuss the kinetics of two compartment open model-oral
7. Explain loading dose and its clinical significance
8. Explain MRT and protein binding
9. Discuss any two methods for the estimation V_{max} and K_m .
10. What are the mechanisms of drug absorption.
11. Explain briefly non-linear pharmacokinetics

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(Model Question Paper)

Clinical Toxicology

Time: 3 hrs

Max. Marks: 70

- *Answer all questions*
- *Draw diagram wherever necessary*

Essays:

(3x10=30)

1. Explain in detail about various types of antidotes and explain its clinical applications.
2. Explain the clinical effects of snake venoms. Add a note on general management of complications related with snake bites.
3. Discuss in detail about the clinical symptoms and management of acute poisoning with paracetamol and salicylates.

Short notes

(8x5=40)

4. Radiation poisoning.
5. Organo phosphorous poisoning.
6. Outline the clinical symptoms and management of opiate overdose.
7. Briefly explain the chronic effects and management of arsenic poisoning.
8. Discuss the techniques of gut decontamination.
9. Explain the harmful effects and the treatment of dependence of tobacco.
10. Food poisonings.
11. Benzodiazepine poisoning.
