



**Pharm.D (PB) I Year (3 YDC) (Instant) Examination Dec / Jan 2024-25**

**Subject: Pharmacotherapeutics – III & 4.1**

**Time: 3 Hours**

**Max.Marks: 70**

**PART- A**

**Note: Answer ALL questions**

**(10 x 2 = 20 Marks)**

Q.No.	Question	CO	BL
1	Write about triple therapy used in the management of peptic ulcer disease.	1	3
2	List out the types of strokes.	3	1
3	Explain about direct thrombin inhibitors.	2	2
4	Define anemia and what are the types of anemias based on the causes.	2	1
5	Categorize anti-depressants based on their mechanism of action.	4	4
6	List out the vaccines used for Hepatitis B.	1	1
7	What is ulcerative colitis and list out the types of ulcerative colitis.	1	1
8	Classify the opioid analgesics.	3	2
9	Discuss the clinical presentation of Parkinson's disease.	3	2
10	Discuss about the clinical presentation of pain.	3	2

**PART B**

**Note: Answer any FIVE questions**

**(5 x 10 = 50 Marks)**

Q.No.	Question	CO	BL
11	Outline the non-pharmacological and pharmacological treatment options for managing GERD in different phases.	4	1
12	a. List out the stages of Alcoholic Liver Disease. (4 M) b. What are the different types of alcohol metabolism and different laboratory findings of ALD. (6 M)	1	1
13	Discuss in detail about etiology, pathophysiology and pharmacological management of Alzheimer's disease.	3	2
14	Classify sleep disorders. Explain insomnia and pharmacotherapy of insomnia in detail.	3	2
15	a. Summarize the different types of drug induced hematological disorders. (4 M) b. Discuss in detail about the mechanisms involved in the drug induced agranulocytosis. (6 M)	2	2
16	Define Aplastic anemia. Explain causes, signs and symptoms, diagnosis and treatment of Aplastic anemia	2	1
17	Define evidence-based medicine, and write the different steps involved in EBM.	5	1
18	What are the types of anxiety disorders and explain the clinical presentation, and treatment for GAD.	4	1

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Code No. PB082411



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## **Pharm.D (PB) I Year (3 YDC) (Main) Examination July/August 2024**

Subject & Code: Pharmacotherapeutics – III & 4.1

Time: 3 Hours

Max.Marks: 70

### **PART- A**

Note: Answer ALL questions

(10 x 2 = 20 Marks)

Q.No.	Question	CO	BL
1	What are the stages or phases seen in the development of hepatitis A infection?	1	1
2	Summarize the phases seen during migraine headache.	5	2
3	List out the types of peptic ulcer diseases based on the etiology.	1	1
4	Discuss about Monoamine Oxidase B inhibitors.	3	2
5	What are the signs and symptoms of Alzheimer's disease?	3	1
6	Classify anemias based on the morphological features of RBCs.	2	2
7	Summarize the types of sleep apnea.	4	2
8	Write the clinical presentation for post-traumatic stress disorder.	4	3
9	Explain about the morphine and its congeners.	5	2
10	Distinguish between partial seizures and complex seizures.	3	2

### **PART B**

Note: Answer any FIVE questions

(5 x 10 = 50 Marks)

Q.No.	Question	CO	BL
11	a. Explain in detail about amino salicylates used for IBD. (5 M) b. Summarize the signs and symptoms observed in different types of jaundice. (5 M)	1	2
12	Explain the pathophysiology and pharmacological treatment of ischemic stroke.	2	2
13	Explain in detail about the evidence-based medicine with examples.	5	2
14	What are the different treatment regimens available for the treatment of H. pylori induced peptic ulcer disease and explain them in detail.	1	1
15	Demonstrate in detail about the pharmacological treatment for portal hypertension and varices.	1	2
16	Illustrate the clinical presentation and pharmacological treatment of obsessive-compulsive disorder.	4	4
17	a. Describe the pain pathways in detail. (7 M) b. Classify non-opioid analgesics. (3 M)	5	2
18	a. Outline the pathophysiology of venous thromboembolism. (5 M) b. Illustrate in detail about the unfractionated heparin used in VTE. (5 M)	2	4

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## Pharm.D (PB) 1 Year (6 YDC) (Main) Examination July/August 2024

Subject: Hospital Pharmacy & 4.2

Time: 3 Hours

Max.Marks: 70

### PART- A

Note: Answer ALL questions

(10 x 2 = 20 Marks)

Q.No.	Question	CO	BL
1	Write the functions of Hospital.	1	3
2	What are the responsibilities of Hospital pharmacist in Hospital pharmacy?	1	3
3	List out the objectives of the Budget preparation and Implementation.	3	2
4	Write the role of Hospital formulary in Hospitals.	4	3
5	Write a short note on Inventory Control.	4	2
6	Write the advantages of Floor stock system.	3	2
7	Write the difference between large volume and small volume parenteral.	6	3
8	Write a note on External teaching programme.	7	3
9	Write the functions of Radiopharmaceuticals.	8	2
10	Write the role pharmacist in Hospital committees.	2	3

### PART B

Note: Answer any FIVE questions

(5 x 10 = 50 Marks)

Q.No.	Question	CO	BL
11	Write the structure and function of Hospital organization.	1	3
12	Define Hospital pharmacy and add a detail note on Its organization.	1	1
13	Write a detail note on Budget preparation and Implementation.	3	3
14	Define Pharmacy and therapeutic committee and Write the structure and functions of PTC	2	1
15	Define ABC and VED and add a detail note on various methods of ABC and VED.	4	5
16	Explain the manufacture of Ointments and Tablets.	6	4
17	a) Write about packing of Radiopharmaceuticals b) Write a note on Educational training Programme in hospitals	7,8	5
18	Explain Professional relationship of pharmacist with other Professionals	8	6

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**Pharm.D (PB) I Year (3 YDC) (Main) Examination July/August 2024**

**Subject: Clinical Pharmacy & 4.3**

**Time: 3 Hours**

**Max.Marks: 70**

**PART- A**

**Note: Answer ALL questions**

**(10 x 2 = 20 Marks)**

Q.No.	Question	CO	BL
1	Write a note on fluid and electrolyte balance.	6	2
2	What are the components of patient information leaflet?	4	2
3	What is medication adherence?	3	2
4	What is pharmaceutical care?	3	2
5	Write about drug utilization evaluation.	5	2
6	Scope of Pharmacovigilance.	8	2
7	Give the normal values of Hb, Hct, MCV, and MCH.	6	1
8	Write the difference between ADR and adverse events.	8	2
9	Write about periodic safety update reports.	8	2
10	List out the verbal and nonverbal skills in patient counseling.	4	1

**PART B**

**Note: Answer any FIVE questions**

**(5 x 10 = 50 Marks)**

Q.No.	Question	CO	BL
11	Write in detail about drug utilization review and the role of clinical pharmacist.	5	2
12	Explain with examples the drug therapy monitoring and pharmacist interventions during the medication chart review.	3	2
13	Write in detail about renal function tests with the interpretation.	6	2
14	Write about reporting, evaluation, monitoring and management of ADRs.	8	2
15	Explain about critical evaluation of biomedical literature.	2	2
16	Explain the systematic approach in answering Drug information queries.	4	2
17	Write in detail about Poison information Centre.	7	2
18	Write about pulmonary function tests	6	2

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Code. No. PB082414

**Pharm. D (P.B.) I Year (Main) Examination July/August 2024****Subject: Biostatistics & Research Methodology & 4.4****Time: 3 Hours****Max.Marks: 70****PART- A****(10 x 2 = 20 Marks)****Note: Answer ALL questions**

Q.No.	Question	CO	BL
1	Define factorial design.	1	1
2	Define variance and write its formula.	1	1
3	Write down the assumptions to apply Binomial distribution.	2	2
4	State the central limit theorem.	1	1
5	State the term Bias in clinical study.	1	1
6	Define random variable with an example.	1	1
7	Define discrete and continuous variables.	1	1
8	Define Standard Deviation.	1	1
9	Define histogram with an example.	2	2
10	Explain errors in sampling.	2	2

**PART B****(5 x 10 = 50 Marks)****Note: Answer any FIVE questions**

Note: Answer any FIVE questions (5 x 10 = 50 Marks)

Q.No.	Question	CO	BL																											
11	(a) Discuss different methods of sampling. (b) Explain types of correlation and correlation coefficient with suitable example.	2	2																											
12	Write in detail about the elements involved in Designing Methodology in pharmaceutical research.	2	2																											
13	Write a brief note on (a) Report writing and presentation of data. (b) Types of clinical designs.	2	2																											
14	Explain One Way ANNOVA with suitable example.	3	5																											
15	(a) Write a short notes on SPSS. (b) Differentiate between relative risk, and attributable risk.	3	3																											
16	Calculate the mean, mode and standard deviation for the following data <table><tr><td>X</td><td>10-20</td><td>20-30</td><td>30-40</td><td>40-50</td><td>50-60</td><td>60-70</td></tr><tr><td>F</td><td>9</td><td>11</td><td>15</td><td>20</td><td>13</td><td>8</td></tr></table>	X	10-20	20-30	30-40	40-50	50-60	60-70	F	9	11	15	20	13	8	5	5													
X	10-20	20-30	30-40	40-50	50-60	60-70																								
F	9	11	15	20	13	8																								
17	In a clinical trial conducted to evaluate the effectiveness of a new pain relief medication, 8 patients were given the medication and rated their pain level on a scale of 1 to 10 both before and after taking the drug. Using the Wilcoxon signed rank test for paired data find the differences between the pairs. <table><tr><th>Patient ID</th><th>Pain rating (before treatment)</th><th>Pain rating (after treatment)</th></tr><tr><td>1</td><td>8</td><td>6.5</td></tr><tr><td>2</td><td>6</td><td>5</td></tr><tr><td>3</td><td>3.5</td><td>5.5</td></tr><tr><td>4</td><td>9.5</td><td>4</td></tr><tr><td>5</td><td>10</td><td>6.5</td></tr><tr><td>6</td><td>8</td><td>3.5</td></tr><tr><td>7</td><td>9</td><td>5</td></tr><tr><td>8</td><td>7</td><td>10</td></tr></table>	Patient ID	Pain rating (before treatment)	Pain rating (after treatment)	1	8	6.5	2	6	5	3	3.5	5.5	4	9.5	4	5	10	6.5	6	8	3.5	7	9	5	8	7	10	6	6
Patient ID	Pain rating (before treatment)	Pain rating (after treatment)																												
1	8	6.5																												
2	6	5																												
3	3.5	5.5																												
4	9.5	4																												
5	10	6.5																												
6	8	3.5																												
7	9	5																												
8	7	10																												
18	Write a short note on: (a) Advantages of Computerized Literature Retrieval (b) Computerizing the Prescription Dispensing process	3	3																											

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**Pharm.D (PB) I Year (3 YDC) (Main) Examination July/August 2024**

**Subject: Biopharmaceutics and Pharmacokinetics & 4.5**

**Time: 3 Hours**

**Max.Marks: 70**

**PART- A**

**(10 x 2 = 20 Marks)**

**Note: Answer ALL questions**

Q.No.	Question	CO	BL
1	Define absorption and elimination.	1	1
2	What is the use of studying biopharmaceutics and pharmacokinetics?	2	1
3	Explain how protein binding affects elimination of drugs and biological half life.	2	2
4	Explain the terms dosing interval and loading dose.	3	2
5	Draw different compartment models.	4	1
6	Explain the terms $C_{ss_{max}}$ and $C_{ss_{min}}$ .	4	2
7	Justify the need for a loading dose in IV multiple dosage regimen	4	5
8	Distinguish between zero and first order kinetics?	4	4
9	When a tablet was taken orally, 1000 mg of drug was absorbed in 10 minutes, calculate the rate of absorption.	5	3
10	Recommend a dosing interval for a drug having a biological half - life of 12 hours.	6	5

**PART B**

**(5 x 10 = 50 Marks)**

**Note: Answer any FIVE questions**

Q.No.	Question	CO	BL
11	Explain passive and active absorption of drugs with a neat labelled diagram.	2	2
12	Explain phase II reactions with examples.	2	2
13	Explain Renal excretion and biliary recycling of drugs with a neat labelled diagram.	3	2
14	Explain the pharmacokinetics of a drug following one compartment model – IV infusion.	4	2
15	Discuss the kinetics of a drug in multiple dosage regimen.	4	2
16	Differentiate between compartmental analysis and non - compartmental analysis.	1	4
17	How do you evaluate pharmacokinetic parameters in non – compartmental analysis?	5	4
18	How do you assess the bio-availability of a drug product using blood level data?	5	4



**Pharm.D (PB) I Year (3 YDC) (Main) Examination July/August 2024**

**Subject & Code: Clinical Toxicology & 4.6**

**Time: 3 Hours**

**Max.Marks: 70**

**PART- A**

**Note: Answer ALL questions**

**(10 x 2 = 20 Marks)**

Q.No.	Question	CO	BL
1	Discuss the diagnosis and management of food poisoning.	7	2
2	Write a brief note on toxicokinetics.	3	3
3	Write a brief note on the universal antidote.	5	3
4	List the common caustics and corrosives in toxicological practice. Mention the signs and treatment of alkali poisoning.	3	1
5	Write short notes on catharsis.	4	3
6	Identify and enumerate the methods of elimination of poison. Explain about forced diuresis.	1	2
7	Outline the clinical features of copper poisoning.	5	4
8	Define venom and describe the composition of snake venom and its toxic effects.	6	1
9	Explain the signs and symptoms of cannabis abuse.	8	2
10	Write about the prevention and control of mycotoxin poisoning.	7	3

**PART B**

**Note: Answer any FIVE questions**

**(5 x 10 = 50 Marks)**

Q.No.	Question	CO	BL
11	Evaluate the processes involved in the diagnosis and stabilization of a poisoned patient.	1	5
12	Investigate the symptoms, signs, mechanisms of action, diagnosis, and treatment protocols for organophosphorus compound poisoning.	3	5
13	Explain the signs, symptoms, diagnosis and management of mushroom poisoning.	7	2
14	Describe in detail the various gut decontamination methods.	4	2
15	Write about the early manifestations, complications and management of snake bite injuries.	6	3
16	Write a note on the general principles in the management of heavy metals poisoning.	5	3
17	Assess the clinical features of arthropod bites and the treatment approaches for anaphylaxis.	6	5
18	Describe the signs and symptoms of tobacco abuse and design a treatment strategy for addressing dependence.	8	2

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## **Pharm.D (PB) I Year (3 YDC) (Main) Examination July/August 2024**

**Subject: Pharmacotherapeutics I & II 4.7**

**Time: 3 Hours**

**Max.Marks: 70**

### **PART- A**

**Note: Answer ALL questions**

**(10 x 2 = 20 Marks)**

Q.No.	Question	CO	BL
1	Define and classify different types of Arrhythmia	1	1 & 2
2	Name the causative organism of Malaria, Gonorrhoea and Syphilis.	7	1
3	List out the signs and symptoms of Bacterial Conjunctivitis	5	1
4	Differentiate between hypertensive urgency and hypertensive emergency.	1	4
5	Define and classify different types of glaucoma	1	1 & 2
6	Categorize the below-mentioned formulas according to their significance. a) Mosteller Formula b) Cockcroft-Gault formula c) Young's formula d) Clark's formula	3	4
7	Differentiate between Osteoarthritis and Rheumatoid arthritis.	8	4
8	Define Cor Pulmonale.	1	1
9	Differentiate between Acute renal failure and Chronic renal failure	10	4
10	Categorize the below-mentioned drugs into different classes according to their use a) Gemfibrozil b) Cholestyramine c) Atorvastatin d) Digoxin	1	4

### **PART B**

**Note: Answer any FIVE questions**

**(5 x 10 = 50 Marks)**

Q.No.	Question	CO	BL
11	Explain the treatment algorithm for the treatment of acute MI.	1	2
12	Discuss general prescribing guidelines for pregnancy and breast feeding	4	2
13	Define Osteoporosis. Describe the diagnosis, pathophysiology and management of Osteoporosis.	8	1 & 2
14	a) Discuss basic principles of cancer chemotherapy. b) Explain the chemotherapy of Breast cancer.	9	2
15	a) Classify Diabetes Mellitus. Explain the pharmacotherapy of type I DM. b) Briefly discuss about the etiopathogenesis and treatment of hyperthyroidism	2	2
16	Write a note on drug induced pulmonary diseases and renal disease.	10	6
17	What dietary and lifestyle changes would you recommend to a patient diagnosed with hyperlipidemia and hypertension to help manage their condition?	1	5
18	Write a note on diagnosis, management, prevention and control of Tuberculosis	7	3

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