Code. No. M7122421

St.Pauls College of Pharmacy

Approved by PCI and Affiliated to Osmania University, Hyderabad.
Accredited by NBA-UG Program, NAAC A+ Grade.
Recognition of College under Section 2(f) of the UGC Act 1956,
UGC Autonomous Institution

M.Pharmacy (Pharmacology) II Semester (PCI) (Supply) Examination Dec / Jan 2024-25

Subject: ADVANCED PHARMACOLOGY-II & MPL201T

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

PART- A

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

Q.No.	Question	Marks	CO	BL
1	a).Explain the biosynthesis ,storage and transport of thyroid hormones. Explain pharmacology of Iodine trapping inhibitors.	8M	1	2
	b) Write short notes on sex hormones.	7M	1	3
2	a). Explain the role alkylating agents in the treatment of cancer.	8M	3	2
	b).List out protozoal infections. Explain the treatment of ameobiasis with suitable examples of drugs.	7M	3	1
3	a).Define Aminoglycosides ?. Explain antibacterial spectrum, MOA and therapeutic uses of streptomycin.	8M	2	1
	b).Write detailed notes on Mechanism of action, adverse effects and therapeutic uses of first generation cephalosporins	7M	2	3
4	a).Explain the treatment of COPD.	7M	3	2
	b) .Write notes on treatment of irritable bowel syndrome.	8M	4	3
5	a).Write notes on role of free radicals in etiopathology of diabetes	7M	5	3
	b).Explain the advanced treatment for Alzheimer's disease	8M	5	2
6	a).Explain the role of anti oxidants in the regulation of free radical activity	7M	5	2
	b).Write notes on advances in the treatment of Parkinson's disease	8M	5	3
7	a).Write notes on applications of chronotherapy in diabetes	8M	4	3
	b).Write detailed notes on pharmacology of Domperidone	7M	4	3
8	a).Classify quinolones.Expalin about anti bacterial spectrum, MOA of any one from quinolones	8M	2	3
	b).Write detailed notes on corticosteroids	7M	1	3

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M.Pharmacy (Pharmacology) II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject& Code: Pharmacological and Toxicological Screening Methods-II & MPL202T
Time: 3 Hours **Max.Marks: 75**

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

Q.No.	Question	Marks	CO	BL
1	a) Explain the role of toxicology in drug development and describe the types of toxicology.	8	1	2
	b) What are the OECD principles of Good Laboratory Practice (GLP) and why are they important in drug development?	7	3	1
2	a) Compare and contrast acute, sub-acute, and chronic toxicity studies for oral routes as per OECD guidelines.	8	1	2
	b) Analyze the methodologies and regulatory requirements for acute eye irritation studies as per OECD guidelines.	7	1	4
3	a) What is reproductive toxicity? Describe the study design and significance of male reproductive toxicity studies.	8	2	1
	b) Compare and contrast different genotoxicity studies.	7	2	2
4	a) Define IND and discuss the significance and industry perspective of IND enabling studies.	8	4	1
	b) What are Tier 1 safety pharmacology studies, and why are evaluations of CVS, CNS, and respiratory systems important in drug development?	7	4	2
5	a) Define toxicokinetics and explain its role in preclinical studies. How does toxicokinetic evaluation differ from pharmacokinetic evaluation?	8	5	1,2
	b) Propose alternative methods to animal toxicity testing and evaluate its advantages and limitations.	7	5	6
6	a) Discuss about dermal toxicity studies.	7	2	2
	b) Explain *in vivo* carcinogenicity studies and explain their role in regulatory toxicology. Which animals are commonly used in these studies?	8	2	2
7	a) Evaluate the procedures and importance of dermal irritation studies as per OECD guidelines.	8	1	5
	b) Examine the ethical concerns of safety pharmacology studies. How can risks to animals be reduced while ensuring reliable data for regulatory approval?	7	1	4
8	a) What are the key regulatory guidelines provided by ICH for conducting toxicity studies?	8	1	1
	b) Discuss the applications of toxicokinetics.	7	5	2

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M.Pharmacy (Pharmacology) II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject & Code: PRINCIPLES OF DRUG DISCOVERY & MPL 203T

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

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

Q.No.	Question	Marks	CO	BL
1	a) Explain lead identification and optimization	10	3	2
	b) Write the role of protein microarrays in target discovery	5	3	3
2	a) Discuss the Economics of drug discovery	10	3	2
	b) Discuss the use of X-ray crystallography in protein structure prediction	5	3	2
3	a) Explain Insilco lead discovery techniques	8	4	2
	b) Discuss structure based approaches in rational drug design	7	4	2
4	a)Outline motifs and folds in protein structure	5	2	1
	b) Explain various steps in threading modelling	10	2	2
5	a) Describe the role of combinatorial chemistry lead identification	5	4	2
	b) Describe docking based screening	5	4	2
	c) Explain process manual docking	5	4	2
6	a) Compare and contrast between SAR and QSAR	10	5	4
	b) Outline rigid docking	5	5	4
7	a) Appraise the value of regression analysis in drug discovery	5	4	5
	b) Assess the difference between SAR and QSAR	10	4	5
8	a) Formulate rationale of prodrug design	8	1	6
	b) Design sustained drug action	7	1	6

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M.Pharmacy (Pharmacology) II Semester (PCI) (Main) Examination Jul/Aug 2024

Subject & Code: CLINICAL RESEARCH AND PHARMACOVIGILANCE & MPL 204 T

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

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

Q.No.	Question	Marks	CO	BL
1	a) Explain the principles of ICH-GCP guidelines. b) Describe the Schedule Y guidelines in clinical trials.	8 7	1	2
2	a) Write the composition and responsibilities of IRB. b) Explain the roles and responsibilities of Clinical Investigator.	8 7	3	2 3
3	a) Discuss the various steps involved in preparing a protocol. b) Write in detail about international classification of diseases.	8 7	1	2 3
4	What are the differences in Indian and Global pharmacovigilance requirements?	15	5	4
5	a) Define ADR. Classify with examples. b) Write about the predictability and preventability assessment of ADR.	8 7	6	1 2
6	Write a note on a) Observational studies b) Spontaneous reporting system	8 7	2	3
7	a) Explain the methods of safety monitoring in clinical trails b) What are the various statistical methods for evaluating medication safety data.	8 7	4	2 3
8	Discuss the following a) Declaration of Helsinki b) Vaccine safety surveillance c) Pharmacoeconomics	5 5 5	1	3

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Subject& Code: ADVANCED PHARMACOLOGY-II & MPL201T

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

PART- A

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

Q.No.	Question	Marks	CO	BL
1	a) Write brief notes on pathophysiology of tuberculosis. Explain the treatment of tuberculosis according to Revised National Tuberculosis Control Programme (RNTCP) guidelines.	7	2,3	3
	b) What are beta lactam antibiotics? Explain the pharmacology of any one beta lactam antibiotics.	8	2	2
2	a) Classify anti-cancer drugs. Explain about MOA, pharmacokinetics and therapeutic uses of Pyrimidine antagonists	8	3	3
	b) Explain the role of free radicals in the neurodegenerative disease like cancer	7	5	2
3	a) Write down the applications of chronopharmacology in cardiovascular diseases.	7	4	2
	b) Classify Anti-ulcer drugs. Explain the role of Proton Pump Inhibitors in the treatment of Peptic-ulcer	8	4	3
4	a) Write brief notes on factors mediating to cause bronchial asthma and role of sympathomimetic treatment of asthma?	8	3	3
	b) Define immunostimulants. Explain the role immunostimulants in improving immunity with examples.	7	3	1
5	a) Classify anti-fungal drugs and note down different types of fungal infection.	7	2	3
	b) What are macrolide antibiotics? Explain pharmacology of any one macrolide antibiotic?	8	2	2
6	a) Explain the role of insulin in the regulation of glucose level and its metabolic functions	7	1	2
	b) Classify oral hypoglycemic agents. Write brief notes on pharmacology of biguanides	8	1	3
7	a) Write in brief on oral contraceptives with suitable example.	7	1	3
	b) Classify anti thyroid drugs. Write brief notes on iodide trapping inhibitors	8	1	3
8	a) Write notes on drugs used in the treatment of helminthiasis.	7	3	3
	b) Classify immunosuppressants. Explain MOA, Adverse effects and therapeutic uses of Calcineurin inhibitors	8	3	3

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