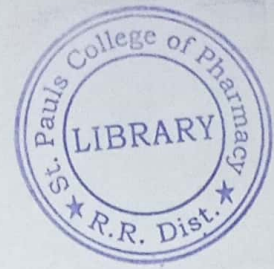


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M.Pharmacy (PHARMACOLOGY) I Semester (PCI) (Main) Examination Feb/March 2024

Subject: ADVANCED PHARMACOLOGY -1 MPL102T

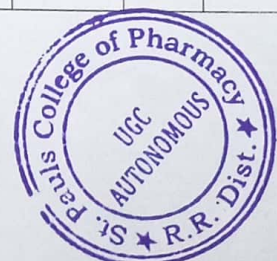
Time: 3 Hours

Max.Marks: 75

PART- A

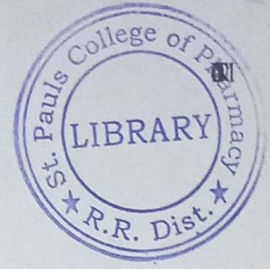
Note: Answer any FIVE questions. All questions carry equal marks.

Q.No.	Question	Marks	CO	BL
1	a) Discuss nuclear receptors.	10	3	2
	b) Justify how a transmission travels through a neuron with suitable examples.	05	1	5
2	a) Explain Neurohumoral transmission in parasympathetic nervous system.	09	1	2
	b) Outline synthesis and metabolism Dopamine.	06	1	4
3	a) Discuss Pharmacological actions, therapeutic uses and adverse effects of acetylcholine.	12	4	2
	b) Explain mechanism of action and uses of d-tubocuarine.	03	6	2
4	a) Classify antipsychotics with suitable examples. Explain the mechanism of action, uses and adverse effects of Tricyclic antidepressants.	12	6	2
	b) Illustrate the pathophysiology of parkinsonism.	03	2	3
5	a) Classify antiarrhythmics with suitable examples Explain the basic electrophysiological actions of antiarrhythmics.	12	6	2
	b) List out the adverse effects of narcotic analgesics.	03	3	4
6	a) Discuss Physiological and Pathological role of histamine	12	2	2
	b) Summarise the functions of NSAIDS	03	3	2
7	a) Define biotransformation and elimination.	06	1	1
	b) Illustrate transmission of acetylcholine	09	6	3
8	a) List the drugs used in cardiac ischemia. Discuss the pharmacology of organic nitrates	12	6	1
	b) Define sympatholytic drugs. Summarise their therapeutic uses	03	4	1



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M.Pharmacy (Pharmacology) I Semester (PCI) (Main) Examination Feb/March 2024

Subject: Cellular and Molecular Pharmacology MPL104T

Time: 3 Hours

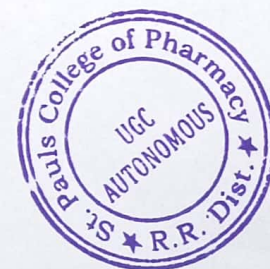
Max.Marks: 75

PART- A

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

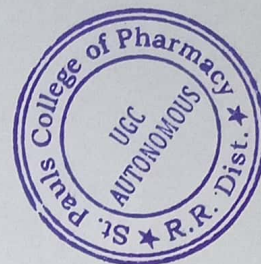
Q.No.	Question	Marks	CO	BL
1	a) Examine cell cycle check points and cell cycle regulation.	10	5	4
	b) Discuss about autophagy.	5	5	2
2	a) Write in detail about gene expression.	10	2	1
	b) Write in brief intrinsic and extrinsic pathways of apoptosis.	5	2	1
3	a) Write the signal transduction mechanisms of G-Protein coupled receptors.	10	1	2
	b) Explain MAPK signaling pathway.	5	1	2
4	Describe basic principles of recombinant DNA technology with its applications.	15	4	3
5	a) Connect Gene Therapy with its applications.	8	4	4
	b) Examine the principles and applications of ELISA.	7	4	4
6	a) Investigate genetic variation in drug transporters.	9	5	5
	b) Comprehend the applications of Genomics & Proteomics	6	5	2
7	a) Differentiate various types of cell cultures and general procedures for cell culturing.	10	6	4
	b) Describe glucose uptake assay	5	6	2
8	a) Elaborate principles and applications of flow cytometry.	10	3	4
	b) Illustrate the Biosimilars? Explain with examples.	5	3	3

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M.Pharmacy (Pharmacology) I Semester (PCI) (Main) Examination Feb/March 2024

Subject: Pharmacological And Toxicological Screening Methods - I MPL103T

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) Define bioassay, illustrate different types of bioassays add a note on limitations of bioassays?	8	1	1,4
	b) Discuss briefly about production and applications of transgenic animals?	7	1	2,4
2	a) Enlist applications of different species and strains of animals in experimental pharmacology?	8	1	2,4
	b) Discuss about screening methods of CNS depressant drugs?	7	2	2
3	a) Discuss experimental animal models to evaluate the test drug for Parkinsonism?	8	2	2,5
	b) Enlist various methods employed in the screening of Anti-epileptics?	7	3	2,3
4	a) Describe the methods of preclinical evaluation for antiinflammatory activity?	8	3	2,4
	b) Elaborate screening methods to evaluate antiemetic agents?	7	3	2,5
5	a) Summarize screening methods to evaluate the analgesics?	8	3	2,5
	b) Summarize screening methods to evaluate the antiatherosclerotic agents?	7	3	2,5
6	a) Enlist screening methods for antihypertensive agents and add a note on any Three models?	8	4	3,2
	b) Explain any two in vitro & in vivo methods for the screening of hepatoprotective activity?	7	4	3,2
7	a) Explain the in vivo and in vitro screening methods for immunomodulatory activity?	8	5	2,4
	b) Elaborate immunoassay of insulin?	7	5	1
8	a) Give a brief account on evaluation of antidiabetic drugs?	8	4	4
	b) Summarize alternate animal experiments?	7	5	1

