Name. Printed Pages:01						
Name Student Admn. No.:				Frinted Fages.01		
School of Allied Health Sciences						
Summer Term Examination — July - August 2024						
[Programme: B. Optometry] [Semester: IV] [Batch: 2023-24]						
Course Title: Basic and Ocular Pharmacology				Max Marks: 100		
Course Code: BOPT4005/ L1UA404T			Time: 3 Hrs.			
Inst	Instructions: 1. All questions are compulsory.					
2. Assume missing data suitably, if any.						
1		K	COs	Marks		
			Level	COS	Marks	
SECTION-A (15 Marks) 5 Marks each						
1.	List four each rout	common routes of drug administration and provide one example for e.	K1	CO1	5	
_	Explain the difference between an agonist and an antagonist.		K2	CO2	5	
2.					5	
3.	Describe the role of the autonomic nervous system in regulating heart rate.		K1	CO3	5	
SECTION-B (40 Marks) 10 Marks eachK2						
4.	Discuss the indications and contraindications of corticosteroids in ophthalmic treatments.		К3	CO3	10	
5.	Analyze the formulation requirements of an ideal ophthalmic drug. How do these requirements ensure efficacy and safety?			CO2	10	
6.	Compare the effectiveness and safety of different routes of drug administration in ophthalmology (topical, intraocular, systemic).			CO1	10	
7.	Explain the pharmacological actions of beta-blockers and prostaglandin analogs in the treatment of glaucoma.			CO2	10	
SECTION-C (45 Marks) 15 Marks each						
8.	Evaluate the role of antioxidants in preventing ocular diseases. Discuss the mechanisms by which antioxidants protect ocular tissues and provide examples of commonly used antioxidants in ophthalmology.		K5	CO2	15	
9.	Analyze the pharmacological treatment options for glaucoma. Compare and contrast the mechanisms of action, efficacy, and side effects of at least three different classes of drugs used in glaucoma management.		K5	CO2	15	
10	Analyze a legal case involving malpractice in the administration of an ophthalmic drug. Discuss the legal principles applied, the outcome of the case, and the implications for clinical practice and patient care.			CO3	15	