



Avinashilingam Institute for Home Science and Higher Education for women
Coimbatore -641043
Continuous Internal Assessment II APRIL -2025
IV Semester

Class: II UG

Branch : Optometry

22BOPC22- Pharmacology

Time: 2 Hours

Max Marks: 60

Course Outcomes:

CO1: To explain the process of drug absorption and distribution mechanism.

CO2: To understand pharmacodynamics process in detail.

CO3: To gain knowledge on Ocular pharmacology and ocular drug delivery methods

CO4: To know ocular drugs and its usage in detail.

CO5: To acquire knowledge on neurotransmitters and toxicity of Ocular drugs.

Part A Choose the Correct Answer

6 × 1= 6

1. Intravitreal injections deliver drugs directly into the: **CO4K1**
a) Anterior chamber. b) Conjunctival sac. c) Vitreous humor. d) Subconjunctival space.
2. Which of the following factors can increase the risk of ocular toxicity? **CO4K2**
a) Low drug concentration. b) Short exposure duration. c) High drug concentration.
d) Use of isotonic formulations.
3. Which of the following is a potential side effect of prolonged corticosteroid use in the eye? **CO3K2**
a) Hypotony b) Cataracts c) Miosis d) Increased tear production
4. Metformin is a medication used to treat: **CO3K1**
a) Viral infections b) Bacterial infections c) Diabetes d) Fungal infections
5. Which agent is used to cause pupil dilation? **CO5K2**
a) Pilocarpine b) Timolol c) Tropicamide d) Dorzolamide
6. Timolol is a: **CO5K2**
a) Prostaglandin analog. b) Beta-blocker. c) Carbonic anhydrase inhibitor.
d) Alpha-adrenergic agonist.

Part B Answer ALL the questions

3× 6= 18

Each answer should not exceed 400 words or two pages

- 7.A. Discuss the Biological agents used in ocular surgery. **CO3K2**
- 7.B. Enumerate the Special drug delivery systems in ocular pharmacology. **CO4 K1**
- 8.A. Describe the Antioxidants prescribed to prevent ocular disease. **CO3K1**
- 8.B. Explain the Routes of drug administration in eye. **CO4K2**
- 9.A. Tabulate the wetting agents & tear substitutes used in eyes. **CO5K1**
- 9.B. Discuss the Diagnostic drugs used in ocular surgery. **CO5K2**

Part C

3× 12= 36

Answer ALL the questions

Each answer should not exceed 800 words or four pages

- 10.A. Discuss the Ocular pharmacokinetics. **CO4K2**
- 10.B. Describe anesthetics used during ocular surgery. **CO4K1**
- 11.A. Explain pharmacotherapy of ocular infections. **CO5K2**
- 11.B. Explain anti-glaucoma drugs. **CO5K2**
- 12.A. Discuss the drugs that modify the immune system to control the ocular inflammations. **CO4K2**
- 12.B. Explain mechanisms, routes & treatment for ocular toxicology **CO4K2**