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## **BRAINWARE UNIVERSIT**

**Term End Examination 2024-2025** Programme - B.Optometry-2021/B.Optometry-2022/B.Optometry-2023 Course Name - Basic & Ocular pharmacology Course Code - BOPTOC404 (Semester IV)

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Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) A drug is identified by a scientific body USAN (United State Adopted Names) Council by its:
  - a) Brand Name

b) Generic Name

c) Chemical Name

- d) None of These
- (ii) The study that relates to Pharmacodynamics is:
  - a) Metabolism of drug

b) Toxic effect of drug

c) Interaction with receptor

- d) Mechanism of action of drug
- (iii) Choose the factor that does not alter bioavailability of a drug:
  - a) State of ionization

- b) Route of administration
- c) Degree of plasma protein binding
- d) Vascularity at site of administration
- (iv) Select the drug used as ophthalmic anesthetics:
  - a) Timolol

b) Betaxolol

c) Atropine

- d) Diclofenac
- (v) Why does the sclera act as a barrier to the drug delivery?
  - a) High vascularization which causes rapid drug clearance
- b) High permeability to aqueous solutions.
- c) Presence of high lipid content
- d) Thick dense structure which limits diffusion
- (vi) Cornea acts as an anatomical barrier for:
  - - a) Lipophilic Drugs

b) Hydrophilic drugs

c) both a & b

- d) None of the above
- (vii) Tell the drug that blocks and inhibits the activity of the acetylcholine (ACh):
  - a) Cholinergics

b) Sympathomimetics

c) Anticholinergics

- d) Cholinimimetics
- (viii) The type II, type III and type IV hypersensitivity reactions is identified to be suppressed by:

		L\ A-cili-tei-i				
	a) Adrenaline	b) Antihistaminics				
(iv)	c) Corticosteroids Widespread and prolonged use of an antib	d) Sod. cromoglycate				
(IX)	strains because antibiotics are associated					
	a) Induce mutation in the bacteria	b) Promote conjugation among bacteria	3			
	c) Allow resistant strains to propagate preferentially	d) None of These				
(x)	Report the role of Beta antagonists:	<b>国际</b>				
11	a) constrict bronchi	b) increase heart rate				
	c) increase blood pressure	d) interfere with far vision				
(xi)	Identify the drug that will not cause an att with narrow angle:					
	a) Atropine	b) Phenyleprine				
	c) Tropicamide	d) Timolol				
(xii)	A common side effect associated with all NSAID drugs:					
	a) Constipation	b) Xerostomia				
c) Gastric irritation		d) Drowsiness				
(xiii	The effective treatment predicted for deno					
(,,,,,	a) Surface anesthesia	b) Local corticosteroids				
	c) Systemic corticosteroids	d) Acyclovir ointment				
(xiv	The relationship between drug concentrat					
(Mr.	a) Pharmacogenomics	b) Pharmacovigilance				
	c) Pharmacogenomics	d) Pharmacokinetics				
(٧٧)	Identify the side effect of Chloramphenico					
(AV)						
	a) Dizziness	b) Headache				
	c) Bone marrow suppression	d) Immunity Suppression				
		Group-B				
	(Short Ans	wer Type Questions)	3 x 5=15			
	Vrite about the parenteral routes of drug ac		(3)			
3. E	numerate any 3 factors influencing drug ab	sorption.	(3)			
4. State any 3 common properties of aminoglycosides.						
5. N		(3)				
6. D	ecide the treatment procedure for Uveitis		(3)			
		OR	(3)			
P	nalyze the effect of cycloplegics on the mu	scarinic receptors in the ciliary body.	(5)			
		Group-C				
	(Long Ans)	wer Type Questions)	5 x 6=30			
	(Long Ans	wer type questions/	1111 (A)			
7.	Explain the relative positions of periocular	injections with diagram	(5)			
8.			(5)			
<ul><li>8. Describe about some special drug delivery systems in pharmacology</li><li>9. Identify the signs, symptoms &amp; treatment method for Bacterial Conjunctivitis</li></ul>						
10. Justify the role of wetting agents & tear substitutes in eyes						
	Classify the drugs used in Peptic ulcer. Give		(5)			
	Illustrate the different routes of drug admir		(5)			
		OR				
	Compare the mechanism of action of carbo	onic anhydrase inhibitors and beta-blockers in	(5)			
	lowering intraocular pressure IOP?					