



BRAINWARE UNIVERSITY

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

Full Marks: 60 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) 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
- (ii) Identify the process not involved in transport of drug across biological membranes:
 - a) Passive diffusion

b) Active transport

c) Facilitated diffusion

- d) Pinocytosis
- (iii) Select the correct route of administration of elixirs:
 - a) Rectal

b) Oral

c) Subcutaneous

- d) Intramuscular
- (iv) Choose the type of injection for sensitivity testing:
 - a) Intradermal

b) Intamuscular

c) Subcutaneous

- d) None of These
- (v) Select the shortest acting non-benzodiazepine.
 - a) Diazepam

b) Zopiclone

c) Zolpidem d) Zaleplon

(vi) Choose the correct statement about osmotic diuretics:a) They are large molecular weight substancesb) The

which form colloidal solution

b) Their primary site of action is collecting ducts in the kidney

c) They increase water excretion without increasing salt excretion

- d) They can lower intraocular pressure
- (vii) Widespread and prolonged use of an antibiotic leads to emergence of drug resistant strains because antibiotics are associated with:
 - a) Induce mutation in the bacteria

b) Promote conjugation among bacteria

c) Allow resistant strains to propagate preferentially

d) None of These

(viii) Superinfections are more commonly associated with:

a) Use of narrow spectrum antibiotics	b) Short courses of antibiotics d) Use of antibiotic combinations covering	
	d) Use of antibiotic combinations developed both gram positive and gram negative	
absorbed from the small intestines	bacteria	
(ix) Identify the factor on which the loading dose of	a drug depends:	
a) Volume of distribution	D) Clearance	
c) Rate of administration	d) Half life	
(x) A common side effect associated with all NSAID	drugs:	
a) Constipation	b) Xerostomia	
a) Castric irritation	d) Drowsiness	
(xi) Select the correct statement about the drugs ap	oplied to the eye:	ior
a) can be absorbed by pigments in the iris	h) will distribute equally between the arrest	101
and retarded in its action	and posterior part of the eye d) penetrates mostly through the conjuncti	va
c) will leave the eye mostly via retinal blood	d) penetrates mostly through the conjunction	
supply	into the eye	
(xii) Select the corticosteroid produced naturally by	the body is.	
a) Methylprednisolone	b) Dexamethasoned) Hydrocortisone	
c) Triamcinolone		
(xiii) Select the following drug that is obtained from	ilowers.	
a) Strychnine	b) Tubocurarine	
c) Quinine	d) Vincristine	
(xiv) Name the drug that relieves itching:	Contract the second second	
a) Anti-pruritics	b) Anti-spasmotics	
c) Anti-tussives	d) Anti-septics	
(xv) The smell of pain relief balm lodex is related to:		
a) Methyl Salicylate	b) Ethyl Salicylate	
c) Propyl Salicylate	d) Butyl Salicylate	
Grou	ın_R	
(Short Answer Ty	•	ς 5=15
(energy mener	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2. State the phase I reactions of drug metabolism.		(3)
3. Discuss the uses of Chloroquine.		(3)
4. Predict the changes in pupillary size after applying	gatropine.	(3)
5. Describe the procedure for giving intravitreal injection	•	(3)
		(3)
O	R	
Explain the role of immunosuppressants in ophtha	almology.	(3)
Grou		
(Long Answer Ty	/pe Questions) 5	x 6=30
7. Define Rational Use of Drugs. Explain the key prir	nciples and benefits of it.	(5)
8. Explain the common characteristics of Aminogly	cosides. Name two drugs belonging to this	(5)
group		(-)
9. Enumerate the uses and adverse effects of Chlor	oquine. Name one antimalarial antibiotic	(5)
10. Enumerate the uses and pharmacokinetics of Adrenaline (5)		
11. Explain the MoA of NSAID in brief. Give examples of Non-selective COV and releasing COV II. (5)		
initibitors, write in priet about the treatment of	acute paracetement - :	• •
12. Classify Anti-asthmatic drugs. Compare Mucolyti	cs and expectorants with one example of	(5)
each.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	87

