



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2021/B.Pharm-2022 Course Name – Pharmacology I Course Code - BP404T (Semester IV)

Full Marks: 75 Time: 3:0 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 20=20

- 1. Choose the correct alternative from the following:
 - (i) Identify the correct statement with respect of pharmacokinetics.
 - a) Acidic drugs unionized at alkaline pH
- b) Basic drugs are unionized at acidic pH
- c) Basic drug ionized at alkaline pH
- d) Acidic drug ionized more in alkaline pH
- (ii) Recall the number of helixes present in G-Protein coupled receptor.
 - a) Six helix

b) Three helix

c) Seven helix

- d) Five helix
- (iii) Identify the role of ion channels.
 - a) Measuring the electric impulse generation
- b) Balancing of fluid
- c) Measuring the conduction of heart
- d) All of these
- (iv) Identify the state for maximum movement of drug occurs across the membrane.
 - a) In anionic form

b) Partially ionized

c) Unionized

- d) In cationic form
- (v) Identify the advantages of protein binding of a drug.
 - a) Distribution

b) Prolonging half life

c) Limiting metabolism

- d) All of these
- (vi) Identify the route preferably given for oily injections.
 - a) Subcutaneous route

b) Intramuscular route

c) Intravenous route

- d) None of these
- (vii) Select the correct option: If an agonist can produce maximal effects and has high efficacy it's called:
 - a) Partial agonist

b) Antagonist

c) Agonist-antagonist

- d) Full agonist
- (viii) Explain why Acetylcholine is not used in clinical practice.
 - a) It is very toxic

- b) The doses required are very high
- c) It is very rapidly hydrolyzed
- d) It is very costly
- (ix) Choose the drug having both alpha as well as beta receptor antagonistic property



a) Yohimbine c) Doxazosin (x) Choose the correct option: Beta blockers are coexcept one	b) Indoramine d) Labetalol ontraindicated in all of the following	
a) Diabetes c) Angina (xi) Identify cholinesterase reactivator drugs	b) Congestive heart failure d) Asthma	
a) Atropine c) Pirenzepine (xii) Among stages of general anaesthesia 2nd stage	b) Pralidoxime d) Ipratropium e is indicated as	
a) Analgesia c) Analgesia and excitement (xiii) Choose barbiturates with ultra short mode of a	b) Excitement d) Surgical anaesthesia action	
a) Thiopental c) Secobarbital (xiv) Choose which one of the following agent potential	b) Pentobarbital d) phenobarbital ntiates the seizure formation.	
a) Phenytoin c) Phenobarbitone (xv) Local anesthetics indicates	b) Pentylenetetrazol d) Carbamazepine	
a) Analgesia, amnesia, loss of consciousness	b) Blocking pain sensation without loss consciousness	of
 c) Alleviation of anxiety and pain with an altered level of consciousness (xvi) Select the correct definition of agonist. 	d) A stupor or somnolent state	
a) Interacts with the receptor without producing any effect	 b) Interacts with the receptor and initial changes in cell function, producing veffects 	
c) Increases concentration of another substance to produce effect (xvii) Identify the feature which doesn't occur in par	 d) Interacts with plasma proteins and d produce any effect kinsonism 	loesn't
a) Bradykinesia c) Fever (xviii) Select what is true in relation to drug receptors	b) Rigidity d) Variable tremor s:	
a) All drugs act through specific receptors	b) All drug receptors are located on the surface of the target cells	
 c) Agonists induce a conformational change in the receptor (xix) Myasthenia Gravis is primarily caused by: 		the
a) Genetic mutations	b) Autoimmune dysfunction affecting	
c) Viral infections (xx) Neuromuscular blocking agents act primarily a	neuromuscular junction d) Metabolic disorders t the:	
a) Presynaptic membrane c) Neuromuscular junction	b) Postsynaptic membrane d) Dendrites	
Grou (Short Answer Ty		5 x 7=35
 State the factors modifying drug action. Describe the phases of clinical trials. Discuss about the different types of parenteral rous. Explain the mechanism of action of disulfiram. 	te of drug administration.	(5) (5) (5) (5)

o. Write down the mechanism of action of local anestnetics.	
7. Write a short note on myasthenia gravis.	(5) (5)
OR	2073
Illustrate the types of epilepsy and mention the adverse effect of phenobarbitone.	(5)
8. Classify antidepressant drugs with example.	(5)
OR	30.5
Classify anti-anxiety drugs with example.	(5)
Group-C	
(Long Answer Type Questions)	10 x 2=20
 Classify cholinergic drugs and show the biosynthesis of Acetylcholine with a proper diagram. 	(10)
 Define parkinsonism and classify the drugs with example that are used to treat parkinsonism. 	(10)
OR	
Illustrate the treatment strategy for status epilepticus.	(10)

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