



## BRAINWARE UNIVERSITY

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

Time: 3:0 Hours Full Marks: 75

[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

- Choose the correct alternative from the following:
- (i) Name of a drug accepted by a scientific body USAN (united state adopted names) council is:
  - a) Generic name

b) Chemical name

c) Brand name

- d) None of these
- (ii) Choose the correct option: Beta blockers are contraindicated in all of the following except one
  - a) Diabetes

b) Congestive heart failure

b) Na+ and K+ ions move across cell

membrane by passive transport

d) Proteins make up 60 to 70% of the cell

c) Angina

- d) Asthma
- (iii) Select the correct statement from the following regarding cell membrane
  - a) Lipids are arranged in a bilayer with polar heads towards the inner part
  - c) Fluid mosaic model of cell membrane was proposed by Singer and Nicolson
    - membrane
- (iv) Insulin produces their action by acting on its specific receptor. Identify the receptor.
  - a) G-protein receptor
- c) Ion channel receptor
- (v) Identify a selective α1 antagonist drug
  - a) Methoxamine

    - c) Prazosin
- (vi) Define Half life (t 1/2).
  - a) Metabolize a half of an introduced drug into the active metabolite
  - Absorb a half of an introduced drug

- b) Tyrosine kinase receptor
- d) Cytosine receptor
- b) Phentolamine
- d) Clonidine
- b) Change the amount of a drug in plasma by half during elimination
- d) Bind a half of an introduced drug to plasma proteins
- (vii) For steroidal hormone signaling one of the following receptor is selected
  - a) GPCR

b) Ion channel

c) Nuclear receptor

d) None of these



(viii) Choose the drug not having an amide?		
a) Lignocaine	b) Mepivacaine	
c) Procaine	d) Dibucaine	
(ix) Choose the neurotransmitters playing a major		
a) Cholinergic	b) GABAergic	
<ul> <li>c) Dopaminergic</li> <li>(x) Determine the antidepressant inhibiting mono</li> </ul>	d) Adrenergic	
a) Amitryptalline	b) Chlogyline	
c) Amoxapine	d) None of these	
(xi) Choose the drug acting as an atypical antidepo	ressant	
a) <mark>I</mark> mipramine	b) Maclobemide	
c) Fluvoxamine (xii) Flumazenil acts as	d) Mianserin	
45 0	b) Diazepam antagonist	
a) Diazepam inverse agonist     c) Opioid antagonist	d) Opioid inverse agonist	
(xiii) The hyperexcitability of neurons is associated		
a) Potentiation of exicitatory neurotransmitter		
c) Presynaptic control of neurotransmitter	d) All of these	
(xiv) Identify the antipsychotics that does not have		
a) Haloperidol     c) Chlorpromazine	b) Resperidone d) Clozapine	
(xv) The birth of experimental pharmacology is ass	C	
a) Francois Magendie	b) Rudolf Buchheim	
c) Claude Bernard	d) Oswald Schmiedeberg	
(xvi) Sub-discipline of pharmacology dealing with t as	he effects of drugs in humans, described	
a) Clinical Pharmacology	b) Theoretical Pharmacology	
c) Experimental Pharmacology	d) All of these	
(xvii) Identify the phase II metabolic reactions that	makes phase I metabolites readily	
excreted in urine.	Property of the	
a) Oxidation.     c) Glucuronidation	<ul><li>b) Reduction.</li><li>d) Hydrolysis.</li></ul>	
(xviii) Select the correct option: The EC50 refers to t		
a) One -half the maximum response is	b) The maximal effect is achieved	
achieved		
<ul> <li>c) Tolerance is likely to be observed</li> <li>(xix) Identify the Drug that bind to membrane dire</li> </ul>	d) None of these	
transduction	try regulating the function by signal	
a) Acetylcholine	b) Benzodiazepine	
c) Barbiturate	d) All of the these	
(xx) Identify the factors contributing to the unequ	al distribution of drugs are all except:	
a) Binding to plasma proteins	b) Cellular binding	
c) Concentration in body fat	d) Heterogeneity of the drug	
Grou	ир-В	
(Short Answer Type Questions)		5 x 7=35
2. Describe the different types of parenteral route o	f drug administration	(5)
<ol><li>Describe clinical pharmacology.</li></ol>		(5)
<ul><li>4. Describe the different steps of Neurohumoral Transmission.</li><li>5. Describe Drug antagonism with examples</li></ul>		(5) (5)
S. Describe Diag antogonism with examples		(-)

6. Write a short note on opioid analgesics and antagonist.	(5)
7. With the help of a diagram explain the treatment of Myasthenia gravis.	(5)
OR	
Differentiate between Adverse drug reaction and Adverse drug event.	(5)
8. Classify skeletal muscle relaxant and give two examples of centrally acting skele relaxant with their mechanism of action.	
OR	
Write a short note on myasthenia gravis.	(5)
Group-C	
(Long Answer Type Questions)	10 x 2=20
9. Enumerate the significance of volume of distribution and renal clearance	(10)
10. Define drug abuse. Write down the difference between drug addiction and drug	
habituation and explain the treatments of morphine poisoning.  OR	
Classify the drugs with example used for the treatment of parkinsonism focusi benefit obtained when carbidopa is used along with levodopa	ing on the (10)

