



## BRAINWARE UNIVERSITY

## Term End Examination 2023 Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2021 Course Name – Medicinal Chemistry I Course Code - BP402T ( 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

- Choose the correct alternative from the following :
- (i) State the following drugs which can be used in case of paralysis caused by skeletal muscle relaxants?
  - a) Neostigmine,

b) Adrenaline,

c) Amphetamine,

- d) Aspirin,
- (ii) Select the following drugs that is used as an antispasmodic?
  - a) Aspirin.

b) Valproic acid,

c) Oxybutynin,

- d) Carbamazepine,
- (iii) Select the following drugs that is used as an antidote for organic phosphate poisoning?
  - a) Pralidoxime,

b) Metformin.

c) Aspirin,

- d) Griseofulvin,
- (iv) Report the following which is a depolarizing muscle relaxant?
  - a) Suxamethonium,

b) Lignocaine,

c) Diclofenac.

- d) Nalidixic acid,
- (v) Phase 1 metabolism is a -----type of reaction
  - a) Synthetic

b) Functionalization

c) conjugation

- d) None of the above
- (vi) Report the following antimuscarinic drugs that can be used as an antiulcer agent?
  - a) Metformin,

b) Galantamine,

c) Probenecid,

- d) Propantheline,
- (vii) Choose the correct option of the following is a imide?
  - a) Vincristine,

b) Glutethimide,

c) Galantamine,

- d) Frusemide,
- (viii) Select the Atom which must be present in hydrogen bonding is
  - a) Hydrogen,

b) Sodium,

c) Calcium,

- d) Sulphur,
- (ix) Select the term for replacement of hydrogen with a flourine atom is known as
  - a) Isotope,

b) Isostere

c) Isomer

d) Isobar





(x)	Identify the option pH is defined as				
	a) -log[H+],	b) -In[H+],			
	c) log[H+],	d) In[OH-],			
(xi)	Choose the following is used for the treatment	of angina pectoris?			
	a) Atenolol	b) Valproic acid			
	c) Paracetamol	d) Griseofulvin			
(xii)	Select among the following which is used for the				
	a) Timolol,	b) Aspirin			
	c) Nimesulide	d) Betaxolol			
(xiii)	Identify the correct option among the followin	And the second of the second o			
(Zalir)	bronchial asthma?	6			
	a) Nicotine,	b) Diclofenac,			
	c) Bitolterol,	d) Nimesulide,			
(xiv)	Identify the drugs which is is used for the treat				
(All )		b) Carbidopa,			
	a) Clonidine, c) Barbiturate,	d) Carbamazipine,			
(vv)	Match the following drugs is used as a mydriat				
(×v)					
	a) Muscarine,	b) Nicotine,			
( i)	c) Cyclopentolate,	d) Aspirin,			
(XVI)	Identify the answer-Neostigmine is synthesized				
	a) m-Chloro-N,N-dimethylaminobenzene,	b) 3-dimethylaminophenone,			
,		d) None of these,			
(XVII	Carbamate used in the treatment of Alzheimer	r's disease is:			
	a) Physostigmine,	b) Neostigmine,			
	c) Rivastigmine,	d) Pyridostigmine,			
(xviii	) Identify the following which is a oxazolidine di	one?			
	a) Carbamazepine,	b) Trimethadione,			
	c) Thiopental,	d) Ergotamine,			
(xix	State the option -Isoflurophate is used for the	treatment of			
	a) Pertussis,	b) Dengue,			
	c) Cholera,	d) Glaucoma,			
(xx)	Identify the following drugs which is an antihy	pertensive?			
	a) Penicillin,	b) Caffeine,			
	c) Aspirin,	d) Mecamylamine,			
	Grou	р-В			
	(Short Answer Ty	ype Questions)	5 x 7=35		
	Answer all	questions			
2. D	efine Metabolism, Mention the factors affecting	drug metabolism in biological system.	(5)		
3. Describe the synthesis of Carbachol.			(5)		
4. Classify cholinesterase inhibitors with proper examples.		(5)			
5. Compare between neostigmine and physostigmine			(5)		
6. Write a short note aspirin and its side effects.			(5)		
7. Fo	ocus on short note of Piroxicam and its severe si		(5)		
	OR				
	ocus on the structure of Haloperidol.oxazepam.l	orazepam and uses of the drug as	(5)		
	ntipsychotics.		<b>(F)</b>		
8. 111	ustrate the synthesis of Ethosuximide.		(5)		

OR

	Group-C	
	(Long Answer Type Questions)	10 x 2=20
9,	Discuss about the SAR of Benzodiazepines.	(10)
10	<ol> <li>Focus on classification of anticonvulsant drugs according to chemical structure and give example from each category with structure.</li> </ol>	(10)
	OR	
	Focus on the structure, uses and adverse effects of lorazepam, alprazolam and zolpidem	. (10)

/Classify phenothiazine as antipsychotics with structure and example/

