



BRAINWARE UNIVERSITY

Term End Examination 2022 Programme - B.Pharm-2018/B.Pharm-2019/B.Pharm-2020 Course Name - Medicinal Chemistry II Course Code - BP501T (Semester V)

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) Which of the following agents is a glucosidase inhibitor? a) Acrabose b) Pepsin c) Dezocine d) Butorphanol (ii) Omeprazole is a a) Proton pump inhibitor b) Beta blocker c) Antineoplastic agent d) Antihistaminic (iii) Which of the following is a mast cell stabilizer? a) Nicotine b) Esmolol c) Muscarine d) Cromolyn sodium (iv) Diuretics are used to: a) increase blood flow rate b) increase urine flow rate c) increase reabsorption d) none of these (v) Which of the following is involved in inflammatory response? a) Acetylcholine b) Histamine d) Noradrenaline c) Epinephrine (vi) How many major subtypes of Histamine receptors are there? a) 2 c) 10 d) 5 (vii) The compound with tri nitrate ester of glycerol used as a Nitroglycerine compound is a) 1,2,4-butanetriol trinitrate b) 1,3,5-pentanetriol trinitrate c) 1,2,3-propanetriol trinitrate d) none of these (viii) Which of the following acts as a mediator of itching?



d) Timolol (x) Which drug acts as nitric oxide donor?

(ix) α-napthol derivative used as an antihypertensive drug is:

a) Histamine

a) Atenolol

c) Metoprolol

c) Acetylcholine

b) Epinephrine

b) Propranolol

d) Norepinephrine

a) Sotalol	b) Clofibrate	
c) Nifedipine	d) Nitroglycerine	
(xi) Which of the following is used for the tr		
a) Timolol	b) Aspirin	
c) Nimesulide	d) Cetrizine	
(xii) Insulin consists of amino a		
a) 51		• •
	b) 60	
c) 80 (xiii) The drugs used for the treatment of Zoll	100 A (2000)	
a) Isoproterenol	b) Famotidine	
c) Carboplatin	d) Aspirin	
(xiv) Cetrizine is a		
a) Piperazine derivative	b) Pyrazole derivative	
c) Oxymorphone derivative	d) Morphinan derivative	
(xv) The compound with tri nitrate ester of g	lycerol used as a Nitroglycerine compound is	
a) 1,2,4-butanetriol trinitrate	b) 1,3,5-pentanetriol trinitrate	
c) 1,2,3-propanetriol trinitrate	d) none of these	
(xvi) Which of the following is a meglitinide d	erivative?	
a) Repaglinide	b) Nitrous oxide	
c) Desflurane	d) Propofol	
(xvii) Class IV Antiarrhythmic drugs acts by blo		
a) Ca++ channel		
c) K+ channel	b) Na+ channel	
(xviii) The particular amino acid part that is con	d) None of these	
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a) Alanine	b) Serine	
c) Glycine	d) Proline	
(xix) High celling diuretics act by inhibiting:	n	
a) Na+/K+/2Cl-Â cotransporter	b) Na+/Cl- symport	
c) Na+/H+antiport	d) water reabsorpton	
(xx) Which of the following is an ethylene dia	amine derivative?	
a) Pyrilamine	b) Aspirin	
c) Paracetamol	d) Celecoxib	
	Group-B	
(Short Answ	wer Type Questions)	5 x 7=35
2. Explain the mechanism of action for menadione with its chemical structure and		(5)
nomenclature		7-70
3. Explain the structure of Ranitidine with IUPA	C name and adverse as well as therapeutic	(5)
applications of Ranitidine		No. 1
4. Establish the mechanism of action for cortisone schematically		(5)
5. Write the structure, nomenclature and therapeutic uses of sotalol		(5)
6. Write the structure and mechanism of action methotrexate		(5)
7. Explain the therapeutic uses and Physiological role played by the Glucocorticoids and		(5)
mineralocorticoids		
8. Write the synthesis of mechloroethamine an	d pharmacological uses of it	(5)
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Write the synthesis and therapeutic activity	of procaine	(5)
	Group-C	
(Long Answ	ver Ty <mark>pe</mark> Questions)	10 x 2=20
9. Classify the antianginal agents and provide	the possible structural examples	(10)
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