



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme - B.Pharm-2019/B.Pharm-2020/B.Pharm-2021 Course Name - Medicinal Chemistry II

Course Code - BP501T (Semester V)

Brainware Universit Sea Ramkishnanur Road, Barasal KOKATA MARKATURA 100/52

Full Marks: 75

a) H1

c) H3

a) Pyrilamine

c) Paracetamol

(vii) Identify the ethylene diamine derivative compound.

(viii) Select the compound which belongs to piperazine derivative group.

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

120		ce Type Question)
1.	Choose the correct alternative from the following	ng:
(i)	(i) Select the correct option. Insulin is secreted by the	
	a) α cells of Langerhans c) Both α cells of Langerhans and β cells of Langerhans	b) β cells of Langerhans d) None of these
(ii)	i) Identify the correct option. Which of the following is a short acting Insulin preparation	
(iii)	a) Novolog c) Humalog Select among the following which acts as a m	b) Humulind) None of theseediator of itching?
(iv)	a) Histamine c) Acetylcholine Select from the following which is involved in	b) Epinephrine d) Norepinephrine inflammatory response?
(v)	a) Acetylcholine c) Epinephrine Select which subtype of the histamine receptor	b) Histamine d) Noradrenaline ors is located in gastric parietal cells?
(vi)	a) H1 c) H3 Select the subtype of histamine receptors local	b) H2 d) H4 ated in the CNS?

b) H2

d) H4

b) Aspirin

d) Celecoxib

a) Cyclizine b) Galantamine c) Ibuprofen d) Indomethacin (ix) Select the compound which belongs to the mono amino propyl derivative group. a) Ibuprofen b) Pheniramine c) Aspirin d) Omeprazole (x) Select the one which belongs to phenothiazine derivative group. a) Promethazine hydrochloride b) Atropine c) Dopamine d) Rivastigmine (xi) Select the one which belongs to the dibenzocycloheptene derivative group. a) Methotrexate b) Cyproheptadine c) Cisplatin d) Vincristine (xii) Identify which type of derivative compound is Cetrizine. a) Piperazine derivative b) Pyrazole derivative c) Dibenzapine derivative d) Phrenothiazine derivative (xiii) Identify which type of derivative compound is Buclizine. a) Piperazine derivative b) Pyridine derivative c) Phenyl ethyl amine derivative d) Phenothiazine derivative (xiv) Select the precursor of the synthesis of Diphenhydramine is a) Diphenylmethane b) Formic acid c) Aniline d) Pyridine (xv) Identify which of the following is used for the treatment of allergy? a) Timolol b) Aspirin c) Nimesulide d) Cetrizine (xvi) Select which one of the following drugs is used for the treatment of hay fever? a) Diphenhydramine b) Vinblastine c) Cisplatin d) Methotrexate (xvii) Select which one of the following drugs is used for the treatment of allergic rhinitis? b) Chlorpheniramine maleate a) Nicotine c) Bitolterol d) Omeprazole (xviii) Identify the alternative use of Minoxidil? a) it helps to rebuild immunity b) it helps in osteoporosis c) it helps in hair growth d) it helps in blood circulation (xix) Identify the position of purine base which is occupied in alkylation by nitrogen mustard? a) 5 b) 6 d) 8 c) 7 (xx) identify the correct option. Mechanism of action of Isosorbide di nitrate is: a) relaxation of vascular smooth muscle b) dilation of peripheral artery c) arteriolar relaxation d) all of these Group-B (Short Answer Type Questions) 5 x 7=35 2. Discuss about the Lipid lowering agents. (5) 3. Discuss about the uses and adverse effect of the following compounds: i) Acetazolamide ii) (5) Frusemide 4. Describe the drugs L-Thyroxine and Liothyronine sodium (5) 5. Establish the mechanism of action for cortisone schematically (5)Explain on the SAR of H2-Antagonist drug. (5)

7. Explain the mechanism of action for menadione with its chemical structure and nomenclature OR	(5)	
Describe loop diuretics with example. Briefly explain the mechanism of action of loop diuretics. 8. Explain the mechanism of digoxin with its uses and adverse effects.		
Classify the anticoagulant drugs with examples Classify the anticoagulant drugs with examples Brainware University 200 Ramkrishnapur Road, Barasat	(5)	
Group-C Kalkata, West Bengal-700125	0 x 2=20	
9. Illustrate the mechanism of action of Disopyramide phosphate and its pharmacology.	(10)	
10. Explain the synthesis nd SAR of nitroglycerine.	(10)	
OR Organized the various important points for the study of the structure activity relationships of Loop Diuretics with few chemical structures .	(10)	