



Library Pharmaceutical Technology Brainware University Barasat, kolkata-700125

BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme – B.Pharm-2020/B.Pharm-2021/B.Pharm-2022 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) Select among the following which acts as a mediator of itching. a) Histamine b) Epinephrine c) Acetylcholine d) Norepinephrine (ii) Select from the following which is involved in inflammatory response. a) Acetylcholine b) Histamine c) Epinephrine d) Noradrenaline (iii) Select which subtype of the histamine receptors is located in gastric parietal cells a) H1 b) H2 c) H3 d) H4 (iv) Select the subtype of histamine receptors located in the CNS. a) H1 b) H2 c) H3 d) H4 (v) Identify the ethylene diamine derivative from the followings. a) Pyrilamine b) Aspirin c) Paracetamol d) Celeccxib (vi) Select the compound which belongs to piperazine derivative group. a) Cyclizine b) Galantamine c) Ibuprofen d) Indomethacin

(vii) Select the compound which belongs to the mono amino propyl derivative group.

(viii) Select the one which belongs to phenothiazine derivative group.

a) Ibuprofen

c) Aspirin

b) Pheniramine

d) Omeprazole

a) Promethazine hydrochloridec) Dopamine(ix) Identify which of the following agents is a gluco	b) Atropined) Rivastigmineosidase inhibitor?	
a) Acrabose c) Dezocine (x) Identify , Omeprazole is a	b) Pepsin d) Butorphanol	
a) Proton pump inhibitorc) Antineoplastic agent(xi) Identify which one of the following is a mast ce	b) Beta blocker d) Antihistaminic ell stabilizer.	
a) Nicotine c) Muscarine (xii) Identify the use of Diuretics.	b) Esmolol d) Cromolyn sodium	
a) increase blood flow rate c) increase reabsorption (xiii) Select the use of Quinidine.	b) increase urine flow rate d) none of these	
a) Antihypertensive drug c) Anticancer drug (xiv) Select the one which is a mineralocorticoid.	b) Antianginal drug d) Antiarrythmic drug	
a) Amiloderone c) Frusemide (xv) Which drug acts as nitric oxide donor?	b) Spironolactone d) Acetazolamide	
a) Sotalol c) Nifedipine (xvi) Select the correct option. Insulin consists of	b) Clofibrate d) Nitroglycerineamino acids.	
a) 51 c) 80 (xvii) The drugs used for the treatment of Zollinger-E	b) 60 d) 90 Illison syndrome is	
a) Isoproterenol c) Carboplatin (xviii) Identify the correct option. The compound with	b) Famotidine d) Aspirin h tri nitrate ester of glycerol used as a	
	b) 1,3,5-pentanetriol trinitrate	
c) 1,2,3-propanetriol trinitrate (xix) Select the correct option. Class IV Antiarrhythm		
a) Ca++ channel c) K+ channel (xx) The particular amino acid part that is common	b) Na+ channel d) None of these in ACE inhibitor is	
a) Alanine c) Glycine	b) Serine Pharmace: Mod Tech d) Proline Brain vol. 2 Unit e Bat arat, Fallance 70	reity
	up-B Type Questions)	5 x 7=35
 Discuss about the uses and adverse effect of the for Frusemide. Describe loop diuretics with example. Briefly expla diuretics. 		(5) (5)

4.	Describe about the drug sotalol.	(5)
5.	Describe the chemical structure with chemical name and uses of Betamethasone	(5)
6.	Illustrate the mechanism of action of Carbonyl anhydrase inhibitor diuretics.	(5)
	Explain the mechanism of digoxin with its uses and adverse effects. OR	(5)
	Classify the anticoagulant drugs with examples	(5)
8.	Produce the synthetic steps involved for Tolbutamide and write the adverse effects of it OR	(5)
	Write the synthesis of mechloroethamine and pharmacological uses of it	(5)
	Group-C	
	(Long Answer Type Questions)	10 x 2=20
9.	Represent the synthesis, mode of action and uses of Cimetidine.	(10)
10	D. Explain anti-hyperlipidemic agents with classification and mention its mechanism of a	ction. (10)
	OR	
	Explain the synthesis and SAR of Nitroglycerine.	(10)
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