



c) Magnesium Hydroxide



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – D.Pharm-2022/D.Pharm-2023
Course Name – Pharmaceutical Chemistry - Theory
Course Code - ER20-12T
(Year I)

Full Marks: 80 [The figure in the margin indicates full mawor	orks. Candidates are required to give their rds as far as practicable.]	Time: 3:0 Hours answers in their own		
(Multi) 1. Choose the correct alternative from the	Group-A ple Choice Type Question) e following :	1 x 20=20		
(i) Identify the reasons for the impurities in pharmaceutical preparations.				
a) Raw Materials c) Chemical Instability (ii) Identify the test on which Limit test	 b) Manufacturing Process d) All of these for Arsenic is based. 			
a) Gutzeit test c) Benedicts test (iii) Identify correct answer: A substance basic medium during titration called.	2000 A	dic and		
a) Indicator c) Equivalency (iv) Identify correct answer: In formula N	b) Titrant d) Buffer solution VIV1, N1 stands for .			
a) Volume of acid c) Normality of base (v) Identify correct answer: The method is	b) Normality of acid d) Volume of base involves the titration of halides in an acid	dic medium		
a) Fajans method c) Mohrs method (vi) Identify correct answer: Which antace	b) Volhards method d) None of these id is water soluble in nature?			
a) AI(OH)3 c) NaHCO3 (vii) Identify correct answer: Which antac	b) Mg(OH)2 d) Ca(OH)2 id absorbs CO ₂ from atmosphere?			
a) Aluminium Hydroxide	b) Sodium Bicarbonate			

(viii) Identify correct answer: Which of the following is long acting thiazide diuretic?

d) None of these

a) Metformin c) Pioglitazone	b) Chlorthalidone d) Repaglinide	
(ix) Identify the correct option. The important feature a) Loss of all sensation, especially pain	d) All of these	
c) Immobility and muscle relaxation (x) Select the correct option: The drug used to trea a) Adrenergic drug c) Anticonvulsant drug (xi) Select the correct option: 5,5-Diphenylimidazol	Antinsychotics drug	
(xi) Select the correct option: 5,5-Dipfleryiffidazo. ———————————————————————————————————	b) Thiopental sodium	
c) Mephenytoin (xii) Identify the correct option: Adrenergic drugs a	d) Phenytoin	7 5 Main av
a) Sympathomimetic agents c) Adrenergic antagonist (xiii) Select the correct option: These drugs inhibit a	d) None of these	
β-receptors. a) Beta adrenergic blockers c) Direct acting (xiv) Identify the correct option: Which of the follow	b) Adrenergic antagonist d) Both (a) and (b)	
(xiv) Identify the correct option. Which of the issue a) Spironolactone c) Frusemide (xv) Identify the correct option: Isoflurane belongs	d) All of these	
a) Volatile liquids c) Slow acting (xxi) Select the correct option: Thiopental Sodium	d) Inducing agents	
a) alcohol c) chloroform (xvii) Identify the correct option: Amobarbital belo	d) water ings to which class of barbiturates?	
a) Long acting c) Medium acting (xviii) Identify the correct option from the following	d) Ultra-short acting g: Ideal Antacid works in pH range.	
a) pH 3-4 c) pH 5-7 (xix) Identify the correct option from the following	d) pH 8-9	
a) Alkaline media c) Prevent precipitation (xx) Choose the following: Which among the following:	 b) Acidic media d) Increase precipitation owing is a beta blocker drug? 	
a) Spironolactone c) Frusemide	b) Propranolol d) All of these	
(Short Answ	Group-B er Type Questions)	3 x 10=30
Discuss the principle for the limit test of Iron :		(3)
Describe the method of preparation, storage		(3)

4.	Describe antacids and classify them with suitable examples in each class.	
5.	Classify antiarrhythmic drugs and write down the chemical structure, uses of Quinidine sulphate.	(3)
6.	Briefly explain about hypertension and classify antihypertensive agents with suitable example.	(3)
7.	Illustrate schematically the mode/mechanism of action of NSAIDs.	(3)
8.	Describe protectives and adsorbents with their uses.	(3)
9.	Describe about Silver Nitrate.	(3)
10.	Define Hypoglycaemic agents and also focus on the 3 types of diabetes in brief.	(3)
11.	Classify NSAID with suitable examples. Pharmace: Sology Brain vice United y Bayanat Library 700125	(3)
	Classify anti fungal agents with suitable examples.	(3)
	Group-C	x 6=30
	(Long Answer Type Questions) 5	X 6=30
12.	Describe about the stability, storage conditions and uses of Salbutamol (Albuterol).	(5)
13.	Write down the chemical name, uses, stability & storage conditions of Carbachol.	(5)
14.	Describe briefly about Clonazepam.	(5)
15.	Explain about Propranolol with structure.	(5)
16.	Discuss the stability, storage condition, market formulation and uses of Phenytoin Sodium with structure.	(5)
17.	Classify NSAIDs and briefly explain the stability, storage conditions and uses of Diclofenac.	(5)
	OR	
	Classify antibiotics with examples with a detailed focus on Penicillin-G.	(5)