





BRAINWARE UNIVERSITY

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

Full Marks : 80 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) Identify correct answer: Acetic acid and alcohols are
 - a) Aprotic solvent

b) Protophilic solvent

c) Amphiprotic solvent

- d) Protogenic solvent
- (ii) Identify correct answer: This method involves the titration of halides in an acidic medium
 - a) Fajans method

b) Volhards method

c) Mohrs method

- d) None of these
- (iii) Select which of the following is Vinca alkaloid
 - a) Mercaptupurine

b) Methotrexate

c) Vinblastine

- d) Doxorubicin
- (iv) Identify which of the following is a synthetic androgenic anabolic steroid
 - a) Dromostanolone

b) Mercaptopurine

c) Methotrexate

- d) None of these
- (v) Identify which of the following is Folate antagonist
 - a) Methotrexate

b) Busulfan

c) Trimetrexate

- d) Both (a) and (c)
- (vi) Identify correct answer: Examples of Systemic antacids is
 - a) Calcium Carbonate

b) Sodium Bicarbonate

c) Magnesium Hydroxide

- d) Aluminium salts
- (vii) Identify the correct option. Thiopentone belongs to which class of barbiturates
 - a) Long acting

b) Short acting

c) Medium acting

d) Ultra-short acting

(viii) Magaldrate contains combination of	11 0 0 2 14 (01)	
a) Al(OH)3 + Mg(OH)2	b) CaCo3 + Mg(OH)2 d) NaOH + Al(OH)3	
c) Al(OH)3 + CaCo3 (ix) Astringents refers to	d) NaOTI + AI(OTI)3	
ACCOUNT OF THE PARTY OF THE PAR	b) carbohydrate precipitation	
a) Fat precipitation	d) Mineral Precipitation	
c) Protein Precipitation(x) The degree of agreement between measure		
	b) Accuracy	
a) Precision c) Range	d) Average deviation	
(xi) Identify correct answer: Which of the follow		
a) Spironolactone	b) Propranolol	
c) Frusemide	d) All of the above	
(xii) Identify the correct option from the followi	ng:Ideal Antacid works in pH range	
a) ph 3-4	b) ph 4-6	
c) ph 5-7	d) ph 8-9	
(xiii) Identify the correct option from the following Iron is	ng:The role of citric acid in the limit test of	
a) Alkaline media	b) Acidic media	
c) Prevent precipitation	d) Increase precipitation	
(xiv) Identify correct answer: Which of the follow	wing is Potassium sparing diuretic	
a) Spironolactone	b) Bumetanide	
c) Frusemide	d) All of the above	
(xv) Identify correct answer: Which of the followagent of sulfonylurea class	wing drug is 2nd generation hypoglycaemic	
a) Glibenclamide	b) Pioglitazone	
c) Repaglinide	d) Metformin	
(xvi) Identify the correct option. Halothane is th		
a) Inhalational	b) Intravenous	
c) Both of them	d) None of these	
xvii) Identify correct answer: Limit test for arsenic is based on which test		
a) Gutzeit test	b) Fehlings test	
c) Benedicts test	d) None of these	
(xviii) Select the correct option. Chemical name of	of Atendiol is	
a) 1-(isopropylamino)-3-napthalen- 1yloxy)propan-2-ol	b) (4-(4-amino-6,7-dimethoxyquinazolin-2- yl)piperazin-1-yl)(furan-2-yl)methanone	
c) 2-(4-(2-hydroxy-3-	d) None of these	
(isopropylamino)propoxy)phenyl)acetam (xix) Select the correct option. Which agents ca directly interacting with the receptors	n reproduce the action of the acetylcholine by	
AND THE RESERVE OF THE PERSON	b) Cholinergic agents	
 a) Cholinergic blocking agents c) Adrenergic antagonist 	d) None of these	
(xx) Identify correct answer: Limit test of iron i		
compound in a solution buffered with ami	monium citrate	
a) Thioglycollic acid	b) Acetic acid	
c) Sodium hydroxide	d) Thioglyconate	



Group-B

(Short Answer Type Questions)

Answer all the questions

3 x 10=30

	Explain the principle involved in the limit test of iron. Also explain the role in limit test of iron	e of thioglycolic acid (3)
	3. Discuss about complexometric titration and give the full name of EDTA wi	th structure (3)
	4. Describe antacids and classify them with suitable examples in each case	(3)
	5. Explain the properties, storage and uses of Silver Nitrate	(3)
6. Explain ACE inhibitors and write a short note on Captopril with its structure		re (3)
	7. Classify NSAID with suitable examples	(3)
	8. Describe Protectives and adsorbents with their use	(3)
	 Define the following: Haematinics, Gastro intestinal agents, Topical agents Medicinal gases, Systemic alkalosis 	s, Dental products, (3)
	 Describe one drug each from Propionic acid derivative and Salicylates der the structure 	ivative along with (3)
	11. Classify Anti tubercular drugs mentioning the generations	(3)
	OR	
	Illustrate the structure of the following: Diazepam, Haloperidol, Phenytoin	n, Gabapentin (3)
	Group-C	
	(Long Answer Type Questions) Answer all the questions	5 x 6=30
	12. Describe Epinephrine	(5)
	13. Explain about Hypoglycaemic agents and Classify Oral hypoglycaemic age examples	nts with suitable (5)
	14. Classify antibiotics with examples with a detailed focus on Penicillin-G	(5)
	15. Describe Phenytoin with structure	(5)
	16. Explain Acetylcholine with structure	(5)
	17. Explain Amitriptylinne Hydrochloride with structure	(5)
	OR	
	Explain Propranolol with structure	(5)
