Total No. of printed pages = 3  BINA CHOWDHURY CENTRAL LIBRARY  (GIMT & SIPS)  AZENE Halkunwapara,  (SYNWAMER 785017							
Roll No. of candidate							
		2020					
		D.Pharm. 1st Year End-Term Examination					
		PHARMACEUTICAL CHEMISTRY – I					
Full Marks - 80  Time - Three hour							
1.	Ans	The figures in the margin indicate full marks for the questions. were the following questions: $(20 \times 1 = 20)$					
	(A)	Fill in the blanks					
*		(i) Limit test are qualitative or test designed to identify or control small quantities of impurities.					
		(ii) The laughing gas is known as					
8		(iii) First edition of I.P. was published in the year					
		(iv) In limit test of Iron formation of purple colour is due to					
		(v) Cathartics are the drugs used to					
		(vi) Systemic antacid are soluble, readily absorbed. (True/ False)					
		vii) Synonym of Magnesium sulphate is					
		(viii) Kaolin is					
		(ix) Homemade ORS constitutes of					
		(x) Achlorhydria/Hypochlorhydria is the absence of					
1	(B)	Multiple choice questions:					
	(i)	Impurities in pharmaceutical preparation may be due to following sources					
		(a) Raw material (b) Manufacturing process					

(d)

(b)

(d)

All of the above

Acidifying agent

Antioxidant

Chemical instability

Hydrogen peroxide is used as

Antiseptic

Protective

(c)

(a)

(c)

(ii)

(iii)	P <sup>H</sup> of blood is a					
	(a)	7.35-7.4	(b)	6.00-6.50		
	(c)	7.50-8.0	(d)	None of the above		
(iv)	Caustic soda is the synonym of					
1	(a)	Potassium hydroxide	(b)	Calcium hydroxide		
	(c)	Sodium hydroxide	(d)	Magnesium hydroxide		
(v)	The hardest substance present in the body					
	(a)	Dentine	(b)	Cementum		
	(c)	Enamel	(d)	None of the above		
(vi)	Ferrous sulphate is called					
	(a)	Green vitriol	(b)	Blue vitriol		
	(c)	White vitriol	(d)	None of the above		
(vii)	Radioactivity is measured by					
	(a)	G.M counter method	(b)	pH meter		
	(c)	Spectrophotometer	(d)	Volumetric titration method		
(viii	) Ase	nic limit test is carried out in				
	(a)	Nessler cylinder	(b)	Separating funnel		
	(c)	Gutzeit apparatus	(d)	All of the above		
(ix)	Thioglycollic acid is used in					
	(a)	Sulphate limit test	(b)	Chloride limit test		
	(c)	Iron limit test	(d)	Heavy metal limit test		
(x)	The principle function of chloride is					
	(a) Maintenance of proper hydration					
	(b) Maintenance of osmotic pressure					
	(c)	Normal electrolytic balance				
	(d)	All of the above				
Sho	rt A	nswer Questions (Any Six):		$(6 \times 5 = 30)$		
(i)	Explain about the Geiger-Muller counter with diagram.					
(ii)	Explain briefly the theories of acid-base concept.					
(iii)	Define Antacid with examples. Classify them. Write two ideal properties of antacid. (1+2+2=5)					

1.2 (D)

2.

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- (iv) Write the chemical formula, synonym, preparation, properties, uses of Hydrochloric acid.
- (v) Write a short note on Expectorants and Emetics. (2.5+2.5=5)
- (vi) What are Antiseptic and Disinfectant. Write the mechanism of action of antimicrobials. (2+3=5)
- (vii) Give the composition of oral electrolyte powders and solution as per WHO norms.
- (viii)What are anticarries agent.Write the role of fluoride in the treatment of Dental carries.
- (ix) Define antioxidant. What are the criteria for a substance to act as antioxidant. (1+4=5)
- 3. Long Answer Questions (Any Three):

 $(3 \times 10 = 30)$ 

- (i) What are Radiopharmaceuticals. What are the biological effects of radiation. Write the applications of radioisotopes. (2+4+4=10)
- (ii) Define Limit test and discuss the principle and method of Chloride Limit test. (2+4+4=10)
- (iii) Define Dehydration. What are the causes of Dehydration. Write a note on Intracellular ions.
- (iv) Write the various sources of impurities in pharmaceutical chemicals. 10
- (v) Define Inhalants. Write the uses of Carbon dioxide, Oxygen, Nitrous oxide. (1+3+3+3=10)

1.2 (D)