2	181	9									
3	Ho	ours /	80	Marks	Seat N	0.					
	Instru	uctions –	(1)	All Questions	are Compuls	sory.					
			(2)	Answer each	next main Q	uestic	on on	a ne	ew	pag	e.
			(3)	Figures to the	right indica	te ful	l mark	KS.			
			(4)	Mobile Phone Communicatio Examination H	n devices ar	2					
											Marks
1.		Attempt	any	<u>FIVE</u> of the	following:						20
	a)	Explain Give its		enius theory of ations.	acids and b	bases	with e	xam	ple	•	
	b)	Define a topical a		crobial agents. crobials.	Explain me	chanis	sm of	acti	on	of	
	c)	Draw a for Arse		labeled diagram Name it.	n of apparat	tus us	ed for	lim	nit t	est	
	d)	Define a antioxida		idants. Enlist t	he criteria fo	or sele	ection	of			
	e)	Define ' for it.	'Achl	orhydria". Writ	e a short mo	ono-gi	raph o	f dr	ug	use	d

- f) Enlist properties for an ideal antacids. Why antacids are preferred in combination?
- g) Elaborate the role of iron and calcium in human physiology.
- h) Explain physiological acid-base balance.

2. Attempt any <u>THREE</u> of the following:

- a) Discuss mechanism of action of antioxidants. Give properties and uses of hydrogen peroxide.
- b) Write molecular formula and uses of ammonium chloride and sodium bicarbonate.
- c) Define quality control and give its importance in pharmacy.
- d) Write properties and uses of sodium thiosulphate and sodium nitrite.
- e) Give uses, storage condition and labeling of carbon dioxide gas.

3. Attempt any <u>THREE</u> of the following:

- a) Enlist different "sources of impurities".
- b) Elaborate ORS mixture. Give its composition according to WHO.
- c) Write a note on cyanide poisoning.
- d) Explain metabolic acidosis and alkalosis. Name one compound used in metabolic acidosis and metabolic alkalosis
- e) Give medicinal uses of:
 - (i) Zinc oxide
 - (ii) Titanium dioxide
 - (iii) Talc
 - (iv) Kaoline

12

Attempt any THREE of the following: Write formula and uses of ferrous sulphate and calcium a) gluconate.

- b) Explain radio-opaque contrast media. Give properties and uses of any one compound used for it.
- c) Define the terms:
 - Desensitizers (i)
 - (ii) Emetics
 - (iii) Expectorant
 - (iv) Laxatives
- d) Explain the principle involved in limit test for iron with reactions.
- e) Define respiratory stimulants. Give properties and uses of ammonium carbonate.

Attempt any THREE of the following: 5.

- a) What are inhalants? Give properties and uses of nitrous oxide.
- b) Define antidote and classify it.
- Enlist various intra and extra cellular electrolytes. Give c) properties and uses of sodium chloride.
- d) Explain anti carries agent giving example
- e) Define and classify gastro intestinal agents with example.

Marks

4.

12

Marks

12

6. Attempt any THREE of the following:

- a) Give biological role of oxygen. Give properties and uses of oxygen.
- b) Define Radiopharmaceuticals. Enlist its various applications.
- c) Write two identification tests for:
 - (i) Calcium
 - (ii) Chlorides
- d) Explain with examples:
 - (i) Heamatinic
 - (ii) Systemic alkaliser
- e) Define topical agents. Discuss the uses of astringents with examples.

	1819 Ho		/	80	Marks	Seat	No.								
	Instru	ctions		(1)	All Questions	are Comp	ulsor	 y.							
				(2)	Answer each n	next main	Que	stic	on c	on a	a ne	ew	pag	e.	
				(3)	Illustrate your necessary.	answers v	vith	nea	it sl	ketc	ches	W]	here	ever	
				(4)	Figures to the	right indi	cate	ful	1 m	ark	s.				
				(5)	Mobile Phone, Communication Examination H	n devices		•							
														Mar	ks
1.		Ansv	ver	any	<u>EIGHT</u> of the	following	g:								16
	a)	State	an	y fou	ır ideal properti	es of buff	er s	olu	tion						
	b)	Ment	tion	two	different allotro	opic forms	of	sul	phu	r.					
	c)	Expl	ain	Lewi	s Acid - Base	theory.									
	d)	Defi	ne:												
		(i)	As	say											
		(ii)	Ra	dio o	paque Contrast	Media									
	e)	Nam	e th	ne inc	organic compou	nd used ir	n fol	low	ving	•					
		(i)	Scl	nistos	omiasis										
		··· · · · · · · · · · · · · · · · · ·													

- (ii) Achlorhydria
- f) Write storage conditions for:
 - (i) Calcium hydroxide
 - (ii) Bismuth sub carbonate.

- g) Write incompatibilities of the following
 - (i) Sulphur dioxide
 - (ii) Silver Nitrate
- h) Explain :
 - (i) Limit tests
 - (ii) Significant figures
- i) Write importance of sodium ion in the body fluid.
- j) Define :
 - (i) Radio activity
 - (ii) Half life
- k) Explain the role of lead acetate cotton plug and mercuric chloride paper in Arsenic limit test.
- 1) Give one important use of following compound:
 - (i) Magnesium trisilicate
 - (ii) Stannous fluoride

2. Answer any <u>FOUR</u> of the following:

- a) Define and classify laxatives with examples.
- b) Explain G.I.T. protective and adsorbent. Give properties and uses of Kaolin
- c) Discuss Bronsted and Lowry concept of acids and bases. Explain its advantages over Arrhenius Theory.
- d) Explain ORS powders recommended by UNICEF and WHO.
- e) What are antacids? Give important properties of antacid.
- f) Write properties and uses of :
 - (i) Titanium dioxide
 - (ii) Calamine.

3. Answer any <u>FOUR</u> of the following:

- a) Explain the following terms:
 - (i) Desensitizing agent
 - (ii) Anticaries agent
 - (iii) Polishing agents
- b) Define antidote. Discuss various actions of antidote with example.
- c) Explain the role of Iron in human body.
- d) Define and classify Topical agent with examples.
- e) What are Metabolic acidosis and alkalosis? How they are treated?
- f) Enlist six different sources of impurities in Pharmaceuticals.

4. Answer any <u>FOUR</u> of the following:

- a) Discuss the role of Oxygen in biological system.
- b) State the precautions to be taken while handling and storage of Radiopharmaceuticals.
- c) Write principle and reaction involved in the limit test for chloride.
- d) Define respiratory stimulant and expectorant. State properties of potassium iodide.
- e) Give molecular formula for:
 - (i) Sodium metabisulfite
 - (ii) Sodium bicarbonate
 - (iii) Ammonium Hydroxide
- f) Write reactions involved in:
 - (i) Effect of heat on Boric acid
 - (ii) Effect of Glycerine on Boric acid.

16

5. Answer any <u>FOUR</u> of the following:

- a) Mention properties, uses and storage of Borax.
- b) Explain electrolyte replacement therapy. Give official preparations of sodium chloride.
- c) Define astringents. Give properties and uses of Alum.
- d) Explain the principle involved in the limit test for arsenic.
- e) Give procedure involved in the limit test for Iron.
- f) Write Synonym of:
 - (i) Sodium metaphosphate
 - (ii) Sublime sulphur
 - (iii) Ferrous sulphate

6. Answer any FOUR of the following:

- a) Define:
 - (i) Antiseptic
 - (ii) Disinfectant
 - (iii) Germicide
 - (iv) Bacteriostatic
- b) Give any four properties of α and β ray's.
- c) Draw a neat labeled diagram and explain working of G.M. counter.
- d) Define antioxidants. Give molecular formula properties and uses of sodium thiosulphate.
- e) Mention four official preparations of :
 - (i) Iodine
 - (ii) Calcium
- f) Give two identification tests for (any two)
 - (i) Acetate ion
 - (ii) Potassium ion
 - (iii) Chloride ion
 - (iv) Sodium ion

217	18									
3 H	lours /	80	Marks	Seat	No.					
Inst	tructions –	(1)	All Questions	are Comp	ulsory.					
		(2)	Answer each	next main	Questic	on or	ı a	new	pag	ge.
		(3)	Figures to the	right indi	cate ful	l ma	ırks.			
		(4)	Assume suitab	ole data, if	necessa	ary.				
		(5)	Mobile Phone Communicatio Examination H	n devices	•					
										Marks
1.	Attempt	any	<u>FIVE</u> of the	following:						20
a) Define drawbac		and base as it.	per Arrhei	nious tl	heory	y a	nd	write	;
b) Define A	Antioz	kidants. Explair	n it's mech	anism o	of ac	ctior	1.		
c) Explain	mech	anism action c	of Antimicr	obial ag	gents				
d) Write re	actior	is involved in A	Assay of B	oric aci	d wit	th C	dlyce	erine.	
e) Define a	and c	lassify antacids	with exar	nples.					
f			t allotropic form precipitate sulp	-	ur and g	give t	he j	prop	erties	5

- g) Define topical agents and classify with examples.
- h) Define 'Astringents'. Discuss their uses.

12

2. Attempt any <u>THREE</u> of the following:

- a) Define term Achlorhydria and write synonym, chemical formula, properties and uses of Muriatic acid.
- b) Write mechanism action of osmotic laxatives. Classify cathartics with examples.
- c) Give reasons why combination antacids are required with examples.
- d) List official preparations of buffers and write its roles in pharmacy.
- e) Define 'Volume Strength' and calculate volume strength of 20% W/V H₂O₂ solution.

3. Attempt any <u>THREE</u> of the following:

- a) Define following terms with examples. (any four)
 - (i) Internal protective and absorbents
 - (ii) Desensitizing agents
 - (iii) Respiratory stimulants
 - (iv) Buffers
 - (v) Inhalants
 - (vi) Expectorants.
- b) Write biological role of oxygen or carbondioxide.
- c) Define and classify dental products with examples.
- d) What is 'Slaked Lime'? Give its properties, uses and molecular formula?
- e) Write advantages of providone Iodine over other Iodine preparations and write properties and uses of providone Iodine.

4.		Attempt any <u>THREE</u> of the following:							
a)		Write synonyms of following (any four)							
		(i) Calcium carbonate							
		(ii) Sodium hydroxide							
		(iii) Talc							
		(iv) Boric acid							
		(v) Aqueous iodine solution							
		(vi) Magnesium sulphate							
	b)	Write properties and uses of Alum.							
	c)	Write chemical formulae for following (any four)							
		(i) Chlorinated lime							
		(ii) Borax							
		(iii) Antimony potassium tartrate							
		(iv) Sodium potassium tartrate							
		(v) Sodium thiosulphate							
		(vi) Hypophosphorus acid							
	d)	Explain mechanism action of sodium thiosulphate and sodium nitrite in cyanide poisoning.							
	e)	Write storage and labelling condition of sulphurdioxide and oxygen gases.							
5.		Attempt any THREE of the following:	12						
	a)	Write four sources of impurities in the pharmaceuticals with examples.							
	b)	Draw well-labelled diagram of Gutzeit apparatus.							
	c)	Write importance of quality control and quality assurance in pharmacy.							

- d) Write principle and reactions involved in limit test for Iron.
- e) Write principle and reactions involved in Assay of Iodine or ferrous sulphate.

P.T.O.

6. Attempt any <u>THREE</u> of the following:

- a) Write acid-base balance of the body.
- b) Explain the biological effects of radiations on human body.
- c) What is ORS? Give different formulae given by WHO and UNICEF.
- d) Distinguish between α , β and γ rays.
- e) Solve any two of the following:
 - (i) Define radio opaque contrast media with example
 - (ii) Write any four compounds official of calcium.
 - (iii) Discuss Role of iron in human body.
 - (iv) Give uses of stannous fluoride and selenium sulphide.

1	1718	8						
3	Ho	ours	/	80	Marks	Seat	No.	
	Instru	ections	s –	(1)	All Questions	s are Comp	oulsory.	
				(2)	Answer each	next main	Question on a	new page.
				(3)	Illustrate you necessary.	r answers	with neat sketch	ies wherever
				(4)	Figures to th	e right ind	icate full marks.	
				(5)	Assume suita	ible data, it	f necessary.	
				(6)	Use of Non- Calculator is		ble Electronic Pe	ocket
				(7)		on devices	nd any other Ele are not permiss	
								Marks
1.		Atte	mpt	any	EIGHT of t	he followii	ıg:	16
	a)	Expl	ain	the f	ollowing term	s. (Any 2)		
		(i)	Ac	hlorh	ydria			
		(ii)	En	netics				
		(iii)	As	tringe	ents			
	b)	Writ	e ch	nemic	al incompatibi	ilities of th	e following. (An	ny 2)
		(i)	Ну	poph	osphorus acid			
		(ii)	Su	lphuro	dioxide			
		(iii)	Fei	rous	Sulphate			
	```	<u> </u>			0 1 0 1	1 • ()		

- c) Give synonyms for the following. (Any2)
  - (i) Magnesium Sulphate
  - (ii) Sodium Potassium Tartarate
  - (iii) Precipitated Sulphur

- d) Write molecular formula for the following. (Any 2)
  - (i) Sodium Metabisulphite
  - (ii) Calcium Carbonate
  - (iii) Stannous Fluoride
- e) Discuss uses of the following compounds. (Any 2)
  - (i) Sodium Nitrite
  - (ii) Sodium Acetate
  - (iii) Sodium Thiosulphate
- f) Discuss the uses of boric acid. Discuss the effect of heat on boric acid.
- g) Write properties and uses of calcium hydroxide.
- h) Explain the importance of Glycerine in the assay of boric acid.
- i) Write properties, storage and handling of NaOH.
- j) Classify antacids with examples. Write two properties of aluminium hydroxide gel.
- k) Give two identification test for each ion :-
  - (i) Chloride
  - (ii) Sulphate
- 1) Write uses and storages and labelling of Oxygen.

### 2. Attempt any <u>FOUR</u> of the following:

- a) Define Antacids. Explain why combination antacid therapy is preferred over single antacid therapy with examples.
- b) Explain Protectives and Adsorbents. Give properties and uses of Kaolin.
- c) Name three official compounds of iron along with their molecular formula.
- d) Explain the principle along with reactions involved in limit test for sulphate IP.
- e) Discuss biological effects of Radiations.
- f) Explain the term 'Inhalants' Mention uses and properties of carbondioxide.

# Marks

12

12

# 3. Attempt any <u>FOUR</u> of the following:

- a) Define antioxidants. Discuss properties required of an ideal antioxidant.
- b) Define the following terms with examples.
  - (i) Expectorants
  - (ii) Antidotes
- c) Explain properties, uses and storage conditions of hydrogen peroxide.
- d) Discuss the role of calcium cation in the body.
- e) Explain importance of 'Electrolyte Combination Therapy' with special reference to ORS.
- f) Discuss the properties and uses of Ammonium Chloride.

## 4. Attempt any FOUR of the following:

- a) Discuss the effects of impurities present in the pharmaceuticals.
- b) Classify antidotes based on mechanism of action. Mention the antidotes for cyanide poison.
- c) Define mEq/L. Calculate the mEq. of sodium chloride in one litre of 0.90% w/v solution.
- d) Enlist the various units used to measure radioactivity.
- e) Explain the importance of use of the following reagents :-
  - (i) Thioglycollic acid in iron limit test IP
  - (ii) Bariumchloride in sulphate limit test IP.
  - (iii) Mercuric Chloride Paper in Arsenic Limit Test IP.
- f) Define buffers. Explain mechanism of action of buffers.

# 5. Attempt any FOUR of the following: a) Which salt is commonly used in Sodium Replacement Therapy? Mention various preparations containing it. b) Discuss the various handling and storage conditions for Radioisotopes. c) Discuss Lowry-Bronsted Theory for acid and base with examples. Explain its advantages over Arrhenius Acid-Base theory. d) Mention the synonyms and uses of :-Hydrochloric acid (i) (ii) Sodium bicarbonate (iii) Zinc Sulphate e) Enlist various Iodine preparations. Explain role of Iodine in body. f) Explain the theory involved in the assay of hydrogen peroxide with reactions. 6. Attempt any FOUR of the following: a) Enlist the various sources of impurities found in pharmaceutical substances. Describe any two. b) Define 'Topical Agents'. Classify them with examples. c) Discuss Arsenic Limit Test IP along with the apparatus used and reactions involved. d) Enlist the major anions and cations found in body fluids. Explain how physiological acid-base balance is maintained. e) Classify the G.I.T. agents with examples. Discuss uses and properties of Bismuth subcarbonate. Explain Radio-Opaque Contrast Media. Discuss Synonym, f) Properties and Uses of Barium Sulphate.

Marks

0806

1	1718	8						
3	Ho	ours	/	80	Marks	Seat	No.	
	Instru	ections	s –	(1)	All Questions	s are Comp	oulsory.	
				(2)	Answer each	next main	Question on a	new page.
				(3)	Illustrate you necessary.	r answers	with neat sketch	ies wherever
				(4)	Figures to th	e right ind	icate full marks.	
				(5)	Assume suita	ible data, it	f necessary.	
				(6)	Use of Non- Calculator is		ble Electronic Pe	ocket
				(7)		on devices	nd any other Ele are not permiss	
								Marks
1.		Atte	mpt	any	EIGHT of t	he followii	ıg:	16
	a)	Expl	ain	the f	ollowing term	s. (Any 2)		
		(i)	Ac	hlorh	ydria			
		(ii)	En	netics				
		(iii)	As	tringe	ents			
	b)	Writ	e ch	nemic	al incompatibi	ilities of th	e following. (An	ny 2)
		(i)	Ну	poph	osphorus acid			
		(ii)	Su	lphuro	dioxide			
		(iii)	Fei	rous	Sulphate			
	```	<u> </u>			0 1 0 1	1 • ()		

- c) Give synonyms for the following. (Any2)
 - (i) Magnesium Sulphate
 - (ii) Sodium Potassium Tartarate
 - (iii) Precipitated Sulphur

- d) Write molecular formula for the following. (Any 2)
 - (i) Sodium Metabisulphite
 - (ii) Calcium Carbonate
 - (iii) Stannous Fluoride
- e) Discuss uses of the following compounds. (Any 2)
 - (i) Sodium Nitrite
 - (ii) Sodium Acetate
 - (iii) Sodium Thiosulphate
- f) Discuss the uses of boric acid. Discuss the effect of heat on boric acid.
- g) Write properties and uses of calcium hydroxide.
- h) Explain the importance of Glycerine in the assay of boric acid.
- i) Write properties, storage and handling of NaOH.
- j) Classify antacids with examples. Write two properties of aluminium hydroxide gel.
- k) Give two identification test for each ion :-
 - (i) Chloride
 - (ii) Sulphate
- 1) Write uses and storages and labelling of Oxygen.

2. Attempt any <u>FOUR</u> of the following:

- a) Define Antacids. Explain why combination antacid therapy is preferred over single antacid therapy with examples.
- b) Explain Protectives and Adsorbents. Give properties and uses of Kaolin.
- c) Name three official compounds of iron along with their molecular formula.
- d) Explain the principle along with reactions involved in limit test for sulphate IP.
- e) Discuss biological effects of Radiations.
- f) Explain the term 'Inhalants' Mention uses and properties of carbondioxide.

Marks

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3. Attempt any <u>FOUR</u> of the following:

- a) Define antioxidants. Discuss properties required of an ideal antioxidant.
- b) Define the following terms with examples.
 - (i) Expectorants
 - (ii) Antidotes
- c) Explain properties, uses and storage conditions of hydrogen peroxide.
- d) Discuss the role of calcium cation in the body.
- e) Explain importance of 'Electrolyte Combination Therapy' with special reference to ORS.
- f) Discuss the properties and uses of Ammonium Chloride.

4. Attempt any FOUR of the following:

- a) Discuss the effects of impurities present in the pharmaceuticals.
- b) Classify antidotes based on mechanism of action. Mention the antidotes for cyanide poison.
- c) Define mEq/L. Calculate the mEq. of sodium chloride in one litre of 0.90% w/v solution.
- d) Enlist the various units used to measure radioactivity.
- e) Explain the importance of use of the following reagents :-
 - (i) Thioglycollic acid in iron limit test IP
 - (ii) Bariumchloride in sulphate limit test IP.
 - (iii) Mercuric Chloride Paper in Arsenic Limit Test IP.
- f) Define buffers. Explain mechanism of action of buffers.

5. Attempt any FOUR of the following: a) Which salt is commonly used in Sodium Replacement Therapy? Mention various preparations containing it. b) Discuss the various handling and storage conditions for Radioisotopes. c) Discuss Lowry-Bronsted Theory for acid and base with examples. Explain its advantages over Arrhenius Acid-Base theory. d) Mention the synonyms and uses of :-Hydrochloric acid (i) (ii) Sodium bicarbonate (iii) Zinc Sulphate e) Enlist various Iodine preparations. Explain role of Iodine in body. f) Explain the theory involved in the assay of hydrogen peroxide with reactions. 6. Attempt any FOUR of the following: a) Enlist the various sources of impurities found in pharmaceutical substances. Describe any two. b) Define 'Topical Agents'. Classify them with examples. c) Discuss Arsenic Limit Test IP along with the apparatus used and reactions involved. d) Enlist the major anions and cations found in body fluids. Explain how physiological acid-base balance is maintained. e) Classify the G.I.T. agents with examples. Discuss uses and properties of Bismuth subcarbonate. Explain Radio-Opaque Contrast Media. Discuss Synonym, f) Properties and Uses of Barium Sulphate.

Marks

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11	92	0								
3	Ho	ours /	80	Marks	Seat 1	No.				
Ì	Instru	ections –	(1)	All Questions	are Compi	ulsory.				
			(2)	Answer each	next main	Questi	on on	a new	page	.
			(3)	Illustrate your necessary.	answers w	vith ne	at skete	ches w	herev	/er
			(4)	Figures to the	right indic	cate fu	ll mark	S.		
			(5)	Mobile Phone Communicatio Examination H	n devices a	-				
									N	larks
1.		Attemp	ot any	<u>FIVE</u> of the	following:					20
	a)	Define	the te	rms with exam	ples					
		(i) L	ewis A	cid and Lewis	Base					
		(ii) R	espirat	ory stimulants	and Inhala	nts.				
	b)	Give s	nonyr	ns and molecu	lar formula	for				
		(i) Se	odium	hydroxide						
		(ii) C	hlorina	ited lime						
	c)	*	•	glycerin is use s involved.	ed in the as	ssay o	f Boric	acid.		

- d) Define and classify "Topical Agents" with examples.
- e) Define "Astringents". Mention their uses.
- f) Classify antacids with example. Write properties of ideal antacids.
- g) Define expectorants. Write mechanism of action of expectorants with example.
- h) Discuss principle involved in limit test for iron with reactions.

2. 12 Attempt any THREE of the following: Define achlorhydria. Give properties, uses and molecular a) formula of agent used to treat achlorhydria. Define the following terms b) Antioxidants (i) (ii) Anticaries Agent (iii) Emetics (iv) Dental Fluorosis c) Explain principle involved in the limit test for lead IP with reactions.

- d) Give properties and uses of calcium carbonate and hydrogen peroxide.
- e) Define Antimicrobial agents and explain their mechanism of action. Give properties of Potassium Permanganate.

3. Attempt any THREE of the following:

- a) Define and explain mechanism of antioxidants. Give properties and uses of sodium thiosulphate.
- b) Define with examples
 - (i) Radio Isotopes
 - (ii) Protectives and Adsorbents
 - (iii) Buffers
 - (iv) Radiopaque constrast media
- c) Give two identification tests for
 - (i) Chloride ion
 - (ii) Calcium ion.
- d) Discuss the biological effects of radiations on human body.
- e) Define cathartics. Classify with examples. Give synonym and molecular formula of Sodium Potassium tartarate.

		14	aiks
4.		Attempt any THREE of the following:	12
	a)	Give storage and labelling for	
		(i) Oxygen	
		(ii) Carbondioxide	
	b)	Draw a well-labelled, neat diagram of Gutzeit - Apparatus.	
	c)	Classify Gastrointestinal Agents with examples.	
	d)	Name four devices used for measurement of radiations. Explain GM counter.	
	e)	Define and classify antidote with examples. Name two antidotes used in cyanide poisoning.	
5.		Attempt any THREE of the following:	12
	a)	Explain "Physiological acid-base balance."	
	b)	Define impurity and explain its effect on pharmaceutical preparations.	
	c)	Discuss Arrhenious theory of acids and bases with examples. Write uses of Boric acid and Calcium hydroxide.	
	d)	State the reactions and explain the principle of assay of hydrogen peroxide or ferrous sulphate.	
	e)	Give properties, uses, storage and labelling of Nitrous oxide.	
6.		Attempt any THREE of the following:	12
	a)	Explain the importance of Electrolyte combination therapy and ORS mixture and give formulas recommended by WHO and UNICEF.	
	b)	Define and classify Dental products. Give the role of fluorides in dental caries.	
	c)	Write the molecular formula and uses of following.	
	,	(i) Ferrous Sulphate	
		×/ •	

- (ii) Magnesium Sulphate
- d) Write the principle and reaction involved in the limit test for chloride IP.
- e) Exaplain Lowry-Bronsted theory with examples. Discuss advantages of this theory over other acid-base theories.