0806

1	5110	6												
3	Ho	ours	/	80	Marks	Seat	No.							
	Instru	ections		(1)	All Questions	are Comp	ulsor	V.						
				(2)	Answer each	next main	Ques	stion	on	a ne	ew	pag	e.	
				(3)	Figures to the	e right indi	cate	full	mark	S.				
				(4)	Assume suital	ble data, if	nece	essar	y.					
				(5)	Mobile Phone Communication	e, Pager an on devices Hall.	d any are n	y oth ot p	ermi	lect	ron le i	ic n		
													Ma	rks
1.		Atter	npt	any	<u>FIVE</u> of the	following:								20
	a)	Defin Amn	ne I noni	Respin ium (ratory Stimular Carbonate as a	nt. Write b respiratory	rief a y stin	lccou nular	nt of nt.	n				
	b)	What fluor	t ar ide.	e An	ticaries agent?	Give prop	erties	and	use	s of	f so	diu	m	
	c)	Give follow	the ving	e ider g ion	ntification tests s/radicals (any	with chen two):	nical	react	tions	for	the	9		
		(i)	Ac	etates	5									
		(ii)	Ca	lcium	l									
		(iii)	Bic	carboi	nates									
	d)	Give	the	e uses	s and storage	and labellin	ng of	the	follo	win	g:			
		(i)	Ox	ygen										
		(ii)	Ca	rbon	dioxide									
	e)	Give Test	the for	e prin Chlo	nciple, reactions ride (I.P.).	s and proce	edure	invo	olved	in	Lir	nit		

- f) Describe properties, uses, synonym and formula of calcium gluconate.
- g) Describe the assay principle and reactions of boric acid with glycerine.

2.		Attempt any THREE of the following:
	a)	Draw a well labelled diagram for Gutzeit Test Apparatus (I.P.) for Arsenic impurity in pharmaceuticals.
	b)	Give the deficiency, symptoms and properties of Iodine.
	c)	Give the synonym of:
		(i) Precipitated Sulphur
		(ii) Stannous Fluoride
		(iii) Borax
		(iv) Zinc Sulphate.
	d)	Write incompatibilities of the following:
		(i) Iron Salts
		(ii) Calcium Gluconate
	e)	Give chemical formula, properties and uses for (any two):
		(i) Calcium Carbonate
		(ii) Sodium Nitrite
		(iii) Ferrous Sulphate
3.		Attempt any <u>THREE</u> of the following:
	a)	Give the principle and reactions involved in Limit Test of Iron (I.P.).

- b) Define Emetics. Give molecular formula, synonym, properties and uses of antimony potassium tartrate.
- c) What is quality control? Stress out the importance of quality control in pharmaceutical industry.
- d) What are antidotes? Classify antidotes with examples.
- e) Give properties, uses, synonym and molecular formula of sodium hydroxide.

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4.

Attempt any THREE of the following:

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a) Enlist the various sources of impurities. Explain the source - "Raw materials" and "Storage condition". b) Discuss the various uses of radioisotopes in pharmacy. c) Give the molecular formula, method of preparation, properties and uses of Ammonium Chloride. d) Define Pharmacopoeia and Monograph. What are the contents of Monograph? e) Define Antioxidants and state properties chemical formula and

e) Define Antioxidants and state properties, chemical formula and uses of Sodium Metabisulphite.

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

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- a) Explain the mechanism of action of antimicrobial agents.
- b) Give the synonym, molecular formula, properties, preparation and uses of chlorinated lime.
- c) How the acid-base balance of the body is maintained?
- d) What are desensitizing agent? Give properties and uses of Strontium Chloride.
- e) Enlist the various devices used in measurement of radioactivity. Draw a neat labelled diagram of "Geiger - Muller Counter".

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6.

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

- a) Explain Arrhenius Acid-Base theory with examples.
- b) What is ORS? Give the formula of ORS given by WHO and UNICEF.
- c) Define "radio-opaque contract media", and give properties and uses of Barium Sulphate.
- d) Give one medicinal use of:
 - (i) Aluminium hydroxide gel
 - (ii) Magnesium sulphate
 - (iii) Bismuth subcarbonate
 - (iv) Selenium sulphide
- e) Give the properties and uses of: (any two)
 - (i) Talc
 - (ii) Calamine
 - (iii) Potasium permanganate
 - (iv) Hydrogen peroxide