M.Sc.(Chemistry) (CBCS Pattern) Fourth Semester CBCS **PSCHT16.5-Elective-Medicinal Chemistry**

	Pages : ne : Th 	2 ree Hours * 3 5 4 9 *	Max. Marks : 80
1.	a)	Write in brief Indian and International framework for patent protection.	8
	b)	Discuss the principles of various types of detectors used in Gas chromatog	raphy. 8
		OR	
	c)	Write a short note on drugs acts and drugs rules.	4
	d)	What are the important features and advantages of Thin layer chromatogra	phy. 4
	e)	Discuss how to protect patents, copyrights and trademarks.	4
	f)	Write a note on Radio pharmaceuticals.	4
2.	a)	Discuss the F-Test with formula, calculation and common examples.	8
	b)	Give the synthesis and uses of: i) Proguanil ii) Amantadine	8
		OR	
	c)	Discuss the malarial parasite's life cycle.	4
	d)	Write a note on chemotherapy for HIV.	4
	e)	Describe the steps involved in a sampling of solids and liquids.	4
	f)	Give short account on investigational drugs.	4
3.	a)	What is meant by histamine antagonist? Give the clinical effects of ar discuss inhibition and release of histamine.	ntihistamine and 8
	b)	Write note on chloramphenicol and explain the chemical degradation of pe	enicillin. 8
	c)	What are β - Lactam antibiotics? Enlist narrow spectrum and broad spectrum with examples.	am antibiotics 4
	d)	Give the synthesis of phenothiazines & mention its uses.	4
	e)	Give the synthesis & medicinal importance of methacycline.	4
	f)	Write note on miscellaneous antibiotics.	4

4.	a)	i)	Give the origin of antiamoebic drugs.	8
		ii)	Explain drugs used in cestode infection and trematode infection.	
	b)	i)	Discuss the etiology of inflammatory diseases.	8
		ii)	Describe inflammatory response of anti-inflammatory drugs.	
			OR	
	c)	Wr	ite the synthesis and side effects of clioquinol.	4
	d)	Giv	re the synthesis and mode of action of phenylbutazone.	4
	e)	Exp	plain drugs used in nematode infection.	4
	f)	Write a short note on iodoquinol.		
5.	a)	Wr	ite use of radioisotopes for radiology and CT.	2
	b)	Dis	tinguish between thin layer and paper chromatography.	2
	c)	Giv	re short account on HIV.	2
	d)	Wr	ite SAR of tetracycline.	2
	e)	Giv	ve classification of cephalosporins.	2
	f)	Wr	ite name of four viruses and diseases caused by them.	2
	g)	Wr	ite a short note on Helminthiasis.	2
	h)	Ext	plain biochemical response of anti-inflammatory drugs.	2
