## M.Sc.- II (Chemistry) CBCS Pattern Semester-IV **PSCHT16.5 - Elective : Medicinal Chemistry**

P. Pages: 2 Time: Three			Max. Marks : 80	
1.	a)	Write in brief about Indian and International framework for patent protection.	8	
	b)	Discuss in brief about diagnostic agents.	8	
		OR		
	c)	Explain TLC in details.	4	
	d)	What is paper chromatography? Explain.	4	
	e)	Discuss how to protect patents, copyrights and trademarks.	4	
	f)	Write a note on drug rules.	4	
2.	a)	Discuss the F-Test with formula, calculation and common examples.	8	
	b)	Write down the synthesis of following-	8	
		i) Acyclovir ii) Amantadine		
		OR		
	c)	Write down the synthesis of chloroquine.	4	
	d)	Give the synthesis of proguanil.	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 are antihistaminic agents? Explain the clinical effects of antihistamine and discus inhibition and release of histamine.	s 8	
	b)	Write note on chloramphenicol and explain the chemical degradation of Penicillin.	8	
		OR		
	c)	Give the synthesis and medicinal importance of methacycline.	4	
	d)	Write the note on Piperzine derivatives.	4	
	e)	Explain Histamine. What is Histamine H1 receptor antagonist?	4	
	d)	Discuss about the classification of cephalosporins.	4	

4.	a)	i) Give the origin of antiamoebic drugs.	8
		ii) Explain drugs used in cestode infection and trematode infection.	
	b)	Explain synthesis of phenyl butazone and its derivatives. Give their medicinal importance.	8
		OR	
	c)	Explain anthelmintics of Helminthiasis.	4
	d)	Explain etiology of inflammatory diseases.	4
	e)	Explain drugs used in nematode infection.	4
	f)	Write a short note on Pyrazolone derivatives.	4
5.	a)	Differentiate between partition and adsorption TLC techniques.	2
	b)	Elaborate HPLC and LCMS meaning.	2
	c)	What is T-test?	2
	d)	Explain chemotherapy for HIV.	2
	e)	Define SAR.	2
	f)	What are miscellaneous antibiotics.	2
	g)	Draw the structure of Haloquinol and indoleacetic acid.	2
	h)	Write the structure of Dichlorphen.	2

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