- 6. (a) Discuss the chemistry underlying in the development of HIV agents.
 - (b) What are antineoplastic agents? Discuss their mode of action.
 - (c) What are prostaglandins and Leukotrienes? What role do they play in the body?

OR

- (p) What are antiviral agents? Give synthesis of Amantidine hydrochloride.
- (q) Discuss the clinical application and mode of action of antihypertensive agents. 5
- (r) Discuss the SAR of anticancer agents in treatment of variety of cancers. 5

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Third Semester M. Sc. (Part-II) (CBCS)

Examination

PHARMACEUTICAL CHEMISTRY

3 SA 2: Medicinal Chemistry - I

P. Pages: 4

Time: Three Hours]

[Max. Marks: 80

- Note: (1) All questions are compulsory and carry equal marks..
 - (2) Give reactions and mechanism wherever necessary.
- (a) Discuss the historical development in Pharmaceuticals.
 - (b) How is SAR useful in development of new drugs? Explain.
 - (c) Give specific clinical applications of antineoplastic agents.

OR

(p) Discuss important aspects of Pharmaceuticals.

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P.T.O.

	(q)	Comment on nomenclature of Pharmaceuticals.	
	(r) ,	Give commercial route of synthesis for antiviral agent.	!
2.	(a)	Discuss the different phases of development in QSAR.	
	(b)	Discuss the nature of drug receptors. 8	
		OR	
	(p)	Discuss the empirical fragment evaluation of SAR.	وي: دور
	(q)	Discuss the isolation of Drug Receptors.	
	(r)	Describe theoretical method of Hansch analysis.) 1
		1	
3.	(a)	Discuss the molecular mechanics approach in drug design.	- And Carlotte Comments
	(b)	In calculation of affinity explain multiple bonding mode.	
	(c)	Explain role of geometric isomers in design of drug.	
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	(p)	Discuss Bioisosterism in detail.
	(q)	Comments on unknown receptors. 4
	(r)	Explain the effect of alteration of chain branching on their activity with example.
1 .	(a)	Explain the concept of Prodrugs. 6
	(b)	What are double prodrugs? How are they useful for site specific delivery of drug in desired form?
	(c)	How are prodrugs designed?
		OR
	(p)	In relation to prodrug discuss Pharma- cokinetic and bio-Pharmaceutical aspects.
	(q)	What are the factors affecting the obsorption of prodrugs?
	(r)	Give an account of distribution of prodrug in body.

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