Total No. of Questions : 6]		SEAT No.:	
P1991	[51.45] 502	[Total No. of Pages	: 2

[5145]-503 Third Year B.Pharmacy 353: MEDICINAL CHEMISTRY-I (2013 Pattern) (Semester - V)

Time: 3 Hours] [Max. Marks: 70

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Answer to the two sections should be written in separate answer books.
- 3) Figures to the right indicate full marks.

SECTION - I

Q1) What are antihypertensive agents? Discuss with one example from each class,SAR and MOA of antihypertensive agents. [10]

OR

Define receptor. Enlist the different types of receptor. Explain in detail about various forces involved in drug-receptor interactions. [10]

Q2) Answer the following (Any Five):

[15]

- a) Write a short note on beta blockers.
- b) Discuss SAR and MOA of potassium sparing diuretics.
- c) Give synthesis of methyldopa.
- d) Add a note on Ferguson principle.
- e) Write a note on receptor site theories.
- f) Explain in detail biosynthesis, storage and release of acetylcholine.
- g) What is protein binding? Write significance of protein binding.

Q3)	Writ	rite a short note on (Any Two)			
	a)	Stereochemical factors affecting drug actions.			
	b)	Signal transduction mechanism.			
	c)	Cholinergic receptor.			
	d)	Cardiotonics.			
<u>SECTION - II</u>					
Q4)	Expl	lain in detail SAR and MOA of sympathomimetic drugs.	[10]		
		OR			
	Write MOA of anti-anginal agents and classify it with one example from each				
	class.		[10]		
Q5)	Ansv	wer the following (Any Five)	[15]		
	a)	Write synthesis of prazosin.			
	b)	Add a short note on anticoagulants.			
	c)	Discuss SAR of acetylcholine.			
	d)	Highlight of neuro-muscular blocking agents.			
	e)	Comment on adrenergic receptors along with their locations.			
	f)	Explain and classify ganglionic blocking agents.			
	g)	Give focus on bioisosterism.			
Q6)	Writ	te a short note on (Any Two)	[10]		
	a)	Biosynthesis, storage and metabolism of catecholamines.			
	b)	Alpha blockers.			
	c)	Osmotic and loop diuretics.			
	d)	Conjugation reaction.			
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