

Code No. 6048

FACULTY OF PHARMACY

B. Pharmacy 3/4	I – Semester (Main) Examination, November 2	2015
	Subject: Medicinal Chemistry – I	

Time: 3 Hours Max.Marks: 70

	Note: Answer A	III questions. All d	questions carry	v equal marks.
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1	a)	Explain with examples the importance of bioisosterism in relation to biological activity.
	b)	What do you mean by soft drug approach in drug design? How is it achieved? OR
	c)	Discuss with suitable examples the influence of protein binding on biological activity.
	d)	Explain with examples the factors affecting the drug metabolism. 7
2	a)	Classify adrenergic drugs with examples, wite the mode of action, SAR and outline the synthesis of Atenolol. 2+3+5+4
	b)	What are cholinergic drugs? Classify them with examples, discuss the mode of action, therapeutic uses and outline the synthesis of dicyclomine. 2+3+3+2+5
3	a)	What are antihypertensive agents? Classify them with examples, discuss the mode of action and SAR of ACE inhibitors. 2+3+3+3
	b)	Write the synthesis and specific uses of clonidine.
	c)	What are anti-hyperlipidemic agents? Classify them with examples, write the mode of action and their SAR. 2+2+3
	d)	Write the synthesis and uses of Clofibrate and Diltiazem. 3+4
4	a)	What are diuretics? Classify them with examples, discuss the mode of action and SAR of thiazide diuretics. Outline the synthesis of Acetazolamide
		and Hydrochlorthiazide. 1+2+2+3+3+3
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	D)	Classify oral hypoglycemic agents with examples, write their mode of action, SAR and add a note on the current status of the management of NIDDM. Write the
		synthesis and uses of Glyclizide. 2+3+3+3+3

- 5 a) Classify H1-receptor antagonists with examples, write the mode of action and SAR. Outline the synthesis and uses of Chlorpheniramine and Cetrizine. 3+2+3+3+3 OR
 - b) Write a note on:

i) Anticoagulants ii) Proton-pump inhibitors.
