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## **FACULTY**

## B. Pharmacy 3/4 I Semester (Suppl.) Examination, April 2018

Subject : Medicinal Chemistry - I

Time: 3 Hrs Max. Marks: 70

## Note: Answer all questions. All questions carry equal marks.

1	<ul><li>(a) Discuss in detail the conjuation reactions involved in the dru metabolism.</li><li>(b) Explain how the followin physio chemical properties influence the bioloic action of a dru mo lecule</li></ul>	(6) al
	(i) Ionization (ii) Hydroen bondin  OR	(4+4)
	(c) Discuss with suitable examples the influence of protein bindin on bioloical activity.	(7)
	(d) Explain the importance of Bio isosterism in dru desin.	(7) (7)
2	(a) Explain the chemistry and mechanism of action of skeletal muscle relaxants.	(6)
	<ul><li>(b) ive the structure and synthesis for the followin:</li><li>(i) Isoproterenol (ii) Moprobamate</li></ul>	(4+4)
	OR	(0)
	<ul><li>(c) Classify anlionic blockin aents with examples. Write the MoA and SAR.</li><li>(d) Add a note on cholineric blockin aents.</li></ul>	(8) (6)
3	(a) What are Anti arrythmic drus? Classify them with examples.	(4)
	(b) ive the structure, uses and MoA of followin:  (i) Verapamil (ii) Clofibrate (iii) Ticlopidine	(5x2)
	(iv) Captopoil (v) Dipyridamole	
	(c) Add a note on HM — CoA reductase inhibitors.	(7)
	(d) ive an accnt of cardiotonic drus.	(7)
4	(a) Write a note on the followin:	(7+7)
	(i) Immuno suppressants (ii) Hypolycemic aents	
	OR	
	<ul><li>(b) tline the synthesis and uses of followin:</li><li>(i) Amrinone (ii) Acetazolamide (iii) Propylthio uracil</li></ul>	(5+5+4)
5	(a) Discuss in detail abt coaulants and anti coaulants.	(7)
	(b) Write the SAR and MoA of proton pump inhibitors.  OR	(7)
	(c) ive the synthesis and MoA of (i) Warfarin (ii) Chlorpheniramine	(4+4)
	(d) Write the MoA and SAR of H <sub>2</sub> receptor antaonists.	(6)

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