[Total No. of Questions - 15] [Total No. of Printed Pages - 2] (2123)

1580

M. Pharmacy 1st Semester Examination Advanced Medicinal Chemistry MP-212

Time: 3 Hours Max. Marks: 90

The candidates shall limit their answers precisely within the answerbook (40 pages) issued to them and no supplementary/continuation sheet will be issued.

Note: Out of two very long questions, carrying 25 marks each only one need to be answered, out of 4 long questions carrying 10 marks each only three are to be answered and out of 9 short questions carrying 5 marks each only seven are to be answered.

- Describe different phases of drug discovery. Differentiate between direct and indirect drug design. Enlist different sources of lead identification. Add a note on pharmacophore based drug design. (25)
- 2. Define the term hypertension. Classify anti-hypertensives with suitable examples. Discuss in detail molecular mechanism, SAR and uses of angiotensin receptor blockers. Why angiotensin receptor blockers are preferred over ACE inhibitors? (25)
- Write objectives, advantages and disadvantages of QSAR.
 Discuss in detail method of calculation and importance of hydrophilic parameters (log P.). Add a note on Hanch analysis.
 (10)
- 4. Classify antineoplastics with suitable examples. Write mode of action and SAR of alkylating agents. (10)

1580/50 [P.T.O.]

	(a) t-value (b) s-value (c) r^2 (d) r^2 cv (e) external test set validation (1)	on 0
6.	What do you understand by the term hyper-lipidemia? Class antihyperlipidimics. Write mode of action and SAR of statins a fibrates. (1	
7.	Write a note on HTS.	(5
8.	Discuss importance of conformations in drug-target interaction	on (5)
9.	Give mode of action and SAR of opioids with special referent to morphine.	(5
10.	Discuss concept and method of energy minimization.	(5)
11.	Write a note on structure band virtual screening.	(5)
12.	Write structures, mode of action and uses of topoisomerase II inhibitors.	l 8 (5)
13.	Discuss structures and physiological importance prostaglandins in context of inflammation and gastric a secretion.	
14.	Write a note on COMT inhibitors with special reference parkinsonis disease.	tc (5)
15.	Write a note on immunostimulants.	(5)

5. Describe following terms commonly used in QSAR: