Total No. of Questions : 4] **SEAT No. :**

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[5246]-205
M. Pharmacy (Semester - II)
DRUG DESIGN (M-II-4)
(2013 Pattern)

Time : 2 Hours] ***[Max. Marks : 50***

Instructions to the candidate :

1) ***Neat diagrams must be drawn wherever necessary.***
2) ***Figures to the right side indicate full marks.***

Q1) What is Bioisoterism? Write applications of bioisosterism in designing of drug molecules **[10]**

Q2) Attempt any Three questions out of Four **[15]**

a) Write a note on Cluster analysis.

b) Drug design based on antagonism

c) Write significance of Metabolism study in drug design.

d) Write in short about bioprecursor prodrugs.

Q3) Attempt any Three questions out of Four **[15]**

a) Write in brief about Topliss tree approach

b) Antagonism concept in drug design.

c) Write in short on CoMFA

d) Write a note on Craig plot

Q4) What are prodrugs? Discuss designing of drug molecule based on metabolism studies with suitable examples. **[10]**

OR

Explain The concepts of enzyme inhibition were proved to be excellent tools in the process of drug design with suitable examples. **[10]**