

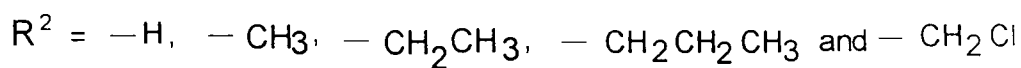
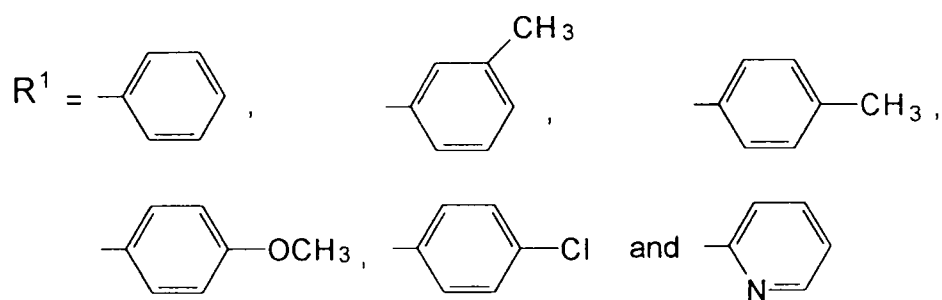
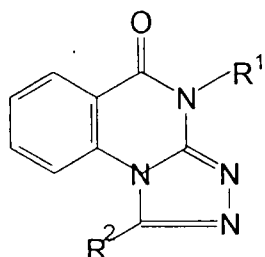
# CHAPTER - II

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Aims And Objectives

## AIMS AND OBJECTIVES OF THE PRESENT WORK

It is apparent from the literature survey that interest in quinazolines and condensed quinazolines as potential medicinal agents has increased during the last two decades. Quinazolines and condensed quinazolines are found to possess potent antihistaminic and antihypertensive activities apart from other pharmacological activities. In spite of a large number of quinazolines and condensed quinazolines being prepared and studied, the synthesis of 1,2,4-triazolo[4,3-*a*]quinazoline nucleus is relatively unexplored. Hence it was considered worthwhile to synthesize some 1,2,4-triazolo[4,3-*a*]quinazolin-5(4*H*)-ones containing aryl substitution at position 4 and alkyl substitutions at position 1 with a view to evaluate them for their antihypertensive and antihistaminic activities. The following types of compounds were proposed to be synthesized:



The aims and objectives of the present work are as follows:

- To synthesize a series of 1,4-disubstituted-s-triazolo[4,3-a]quinazolin-5(4H)-ones.
- To screen the compounds for their antihypertensive activity by studying its  $\alpha$ -adrenergic blocking effect.
- To evaluate the synthesized compounds for antihistaminic activity
- To determine the sedative potential of the test compounds
- To identify the active compounds for further exploitation.