

## Abstract

In [1], the notion of  $f$ -ideal has been introduced and  $f$ -graphs were first presented in [14]. Later, in [19] and [20] the concept of quasi  $f$ -ideals and quasi  $f$ -graphs has been discussed . The focus of this thesis to discuss some properties of quasi  $f$ -ideal. In this thesis, we give characterization of those graphs whose stanely Reisner ideal turn into quasi  $f$ -ideal of type  $(0, b)$  and we discuss bipartite graphs has property whose stanely Reisner ideal become quasi  $f$ -ideal. Moreover, we discuss those graphs whose both stanely Reisner and facet ideal become quasi  $f$ -ideal.